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SAVANNAH STATE COLLEGE

SAVANNAH, GEORGIA



BULLETIN

GENERAL CATALOG

1974-1975

SSC



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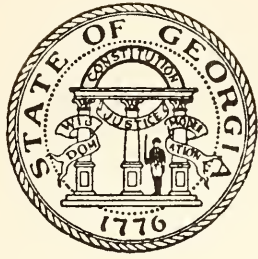
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THE SAVANNAH STATE COLLEGE BULLETIN

GENERAL CATALOG ISSUE, 1974-1975

SEPTEMBER 1974

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● CALENDAR FOR 1974 ●			
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TABLE OF CONTENTS

THE COLLEGE CALENDAR	1
BOARD OF REGENTS, COLLEGE ADMINISTRATION, FACULTY AND NATIONAL ALUMNI OFFICERS	6
Members of the Board of Regents	6
Staff of the Board of Regents	6
Officers of Administration	7
Heads of Departments.....	8
The Faculty	8
Extended Services Staff	20
Administrative Staff.....	19
National Alumni Officers.....	23
GENERAL INFORMATION:	
HISTORY, PURPOSE, PROGRAMS.....	24
History of Savannah State College.....	29
Purpose and Objectives.....	28
Graduate Programs	29
Baccalaureate Degree Programs.....	30
Associate Degree Programs	31
Pre-Professional Programs	31
Georgia Intern Program	31
Extended Services.....	32
Special Studies Program	35
A. H. Gordon Library and Media Center	35
ADMISSION TO THE COLLEGE.....	36
General Information	36
Requirements for Regular Admission.....	36
Conditional Admission	37
Transfer Students	37
Transient Students	39
Auditors	40
Seminars	40
Special Student Enrollment	40
Early Admissions and Joint Enrollment.....	41
Residency Requirements	41
ESTIMATED GENERAL EXPENSES.....	43
Schedule of Fees and Expenses	43
Explanation of Fees.....	43
Refund Policy	45
FINANCIAL AID	46
STUDENT LIFE	50
Student Conduct	51
Student Personnel Services	51
Student Activities	53
ACADEMIC REGULATIONS	55
Class Attendance	55
The Grading System	55
Reporting of Grades	55

TABLE OF CONTENTS (Continued)

Changes in Grades	56
Calculating The Scholastic Average	57
Classification of Students	57
Student Load	58
Scholarship Standards	58
Recognition of Excellence in Scholarship	59
Graduation Honors	59
GENERAL REQUIREMENTS FOR	
THE BACCALAUREATE DEGREES	60
Savannah State College Core Curriculum	61
Rising Junior English Examination	61
DIVISION AND DEPARTMENTAL COURSE	
OFFERINGS AND REQUIREMENTS FOR	
MAJORS, MINORS, AND SPECIAL PROGRAMS	63
Division of Business Administration	63
Division of Education	80
Department of Health, Physical Education	
and Recreation	89
Division of Humanities	95
Division of Natural Sciences	128
Division of Naval Sciences	164
Division of Social Sciences	169
Division of Technical Sciences	192

ACADEMIC CALENDAR

FALL QUARTER, 1974

September

3	Tues	Last day for students to apply for Fall Quarter
13	Fri	Last day to file for refund of admission and room deposits. (See Explanation of Fees in college catalog)
15	Sun	Entering students arrive. All residence halls open for entering students. Report to Housing Office (Wright Hall)
16	Mon	Dining Hall Opens
16	Mon	Comparative Guidance and Placement Examination
16-18	Mon-Wed	Freshmen Orientation
18	Wed	Residence Halls open for continuing students
19-20	Thurs-Fri	Registration, all students, 8:30 a.m. - 4:30 p.m. Registration for graduate, Evening and Saturday only students, 4:30 p.m. - 7:30 p.m.
23	Mon	Classes begin, 8:00 a.m.
23-24	Mon-Tues	Registration with payment of late fee of \$5.00
23-25	Mon-Wed	Schedule adjustment period (ADD & DROP), 9:00 a.m. - 3:30 p.m. All additions of classes must be completed during this period

October

1	Tues	University System Language Skills Examination (Formerly called Rising Junior Exam)
14	Mon	Last day of eligibility for refund for reduced loads
25	Fri	Comparative Guidance and Placement Examination

November

1	Fri	Reporting of Mid-Quarter deficient grades
4-8	Mon-Fri	Advanced registration and pre-advisement for Winter Quarter
8	Fri	Last day to drop courses
22	Fri	Comparative Guidance and Placement Examination

28-Dec. 1 Thurs-Sun Thanksgiving recess

December

2	Mon	Classes resume
2	Mon	Comparative Guidance and Placement Examination

3	Tues	Fall Quarter ends at close of day
4	Wed	Last day for filing admission applications and paying admission and room deposits for Winter Quarter
4-7	Wed-Sat	Final Examinations
7	Sat	Fall Quarter ends Last day for filing requests for refund of admission and room deposits. (See Explanation of Fees in college catalog) Christmas vacation begins
13	Fri	Freshmen and transfer students should file all papers required in the application for admission by this date

WINTER QUARTER, 1975

January

2	Thurs	Residence Halls open at 8:00 a.m.
2	Thurs	Comparative Guidance and Placement Examinations
2	Thurs	Dining Hall opens at 12:00 noon
2	Thurs	University System Language Skills Examination Registration, all students, 8:30 a.m. - 4:30 p.m. Registration, evening and Saturday only students, 4:30 p.m. - 7:30 p.m.
3	Fri	Classes begin
6-7	Mon-Tues	Registration with payment of late fee of \$5.00
6-8	Mon-Wed	Schedule adjustment period (ADD & DROP). All additions of classes must be completed during this period
14	Tues	University System Language Skills Examination (Formerly called Rising Junior Exam)
15	Wed	Martin Luther King's birthday (All-College Assembly) No undergraduate classes
24	Fri	Last day of eligibility for refund for reduced load
31	Fri	Last day for filing applications for June Graduation
31	Fri	Comparative Guidance and Placement Examinations
February		
3-7	Mon-Fri	New Dimensions in Life (Religious Emphasis Week)

7	Fri	Reporting of Mid-Quarter deficient grades
14	Fri	Honor's Convocation
15	Sat	Exemption Examination, History of U. S. and Georgia (Application deadline, February 7)
17-21	Mon-Fri	Advanced registration and pre-advisement for Spring Quarter
21	Fri	Last day for dropping courses for Winter Quarter
28	Fri	Comparative Guidance and Placement Examinations
March 3	Mon	Last day for filing requests for refund of room deposits for Spring Quarter
7	Fri	Freshmen and transfer students should file all papers required in the application for admission by this date
11	Tues	Classes end at close of day
12-14	Wed-Fri	Final Examinations
15	Sat	Winter Quarter ends
17-21	Mon-Fri	Spring Recess

SPRING QUARTER, 1975

March 24	Mon	Residence halls open at 8:00 a.m.
24	Mon	Dining Hall opens at 12:00 noon
24	Mon	University System Language Skills Examination
24	Mon	Registration, all students 8:30 a.m. - 4:30 p.m. Registration, Evening and Saturday only students, 4:30 p.m. - 7:30 p.m.
24	Mon	Comparative Guidance and Placement Examinations
25	Tues	Classes begin
25-27	Tues-Thurs	Schedule adjustment period (ADD & DROP). All additions of classes must be completed during this period
26-27	Wed-Thurs	Registration with payment of late fee of \$5.00
28	Fri	Easter Recess (Good Friday Only)
April 1	Tues	Classes resume University System Language Skills Examination (Formerly Rising Junior Exam)
14	Mon	Last day for eligibility for refund for reduced loads
14-18-	Mon-Fri	Co-ed week

25	Fri	Applications due for Regents Scholarships (obtain application forms from Office of Financial Aid)
25	Fri	Comparative Guidance and Placement Examination
28	Mon	Reporting of Mid-Quarter deficient grades
May		
5-9	Mon-Fri	Advanced registration for Summer Quarter
12	Mon	Last day for dropping courses
16	Fri	Awards Day (All college Assembly)
19	Mn	Freshmen and transfer students should file all papers required in the application for admission by this date
26	Mon	Comparative Guidance and Placement Examination
30	Fri	Classes end at close of day
June		
1	Sun	Commencement
2	Mon	Last day for filing requests for refund of room deposits
2-4	Mon-Wed	Final Examinations
4	Wed	Spring Quarter ends

SUMMER QUARTER, 1975

Regular Sessions (9 weeks)	June 9 - August 8
Six-week Session	June 9 - July 18
Three-week Session	July 21 - August 8

June		
8	Sun	Residence halls open at 8:00 a.m. Report to the Office of Housing (Wright Hall)
9	Mon	University System Language Skills Examination
9-10	Mon-Tues	Registration, graduate and undergraduate students, 8:30 a.m. - 4:30 p.m. (Regular and Six-week session)
9	Mon	Comparative Guidance and Placement Examination
10	Tues	Classes begin (Regular and Six-week Session)
11-13	Wed-Fri	Registration with payment of late fee of \$5.00 Shedule adjustment period. All additions of classes must be completed during this period
July		
4	Fri	Fourth of July (Holiday)
7	Mon	Classes resume
14	Mon	Reporting of Mid-Quarter deficient grades

18	Fri	Final examinations for six-week courses
21	Mon	Registration for three-week session
		NO LATE REGISTRATION PERMITTED
21-22	Mon-Tues	Reporting of six-week grades
25	Fri	Comparative Guidance and Placement Examination
28	Mon	Last day for dropping course
August		
4	Mon	Comparative Guidance and Placement Examination
6	Wed	Classes and (Regular and three-week sessions)
7-8	Thurs-Fri	Final Examinations
8	Fri	Summer Quarter ends
		Commencement

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- Oscar C. Daub *English*
A.B., Wheaton College; M.A., Rutgers University; Ph.D. University of Georgia
- John T. Demel *Engineering Technology*
B.S.M.E., University of Nebraska; M.S., Iowa State University
- Madeline H. Dixon *Library Science*
B.S., Fish University; B.S.L.S., North Carolina College; M.S.L.S., University of Illinois
- Norman B. Elmore..... *English*
B.S., Savannah State College; M.A., New York University
- Obi Emeh *Biology*
B.S., Cuttington College, (Liberia); M.S., Tuskegee Institute; Ph.D., University of Wisconsin
- *Ella W. Fisher..... *Physical Education*
B.S., Xavier University; M.Ed., Temple University
- Albert E. Frazier *Physical Education*
B.S., Tuskegee Institute; M.A., Arizona State College
- Charlie Gaulden, Jr..... *Trade and Industrial Education*
B.S., Savannah State College; M.Ed., Ph.D., University of Missouri
- Samuel A. Gill *Music*
B.S., Savannah State College; M.A., Teachers College, Columbia University
- ¹John R. Hansen..... *Mathematics*
Armstrong State College
B.S., Troy State College; M.Ed., University of Georgia

¹Adjunct Professor *On Leave

- Robert Holt..... *English*
B.S., North Carolina A. and T. College; M.A., State University of Iowa; Ed.S., George Peabody College for Teachers
- Dorothy H. James *Education*
B.S., Fort Valley State College; M.A., Atlanta University
- Jeffrey James *Chemistry*
B.S., Savannah State College; M.S., Tuskegee Institute; Ph.D., Howard University
- Elizabeth B. Johns *English*
B.A., Birmingham-Southern College; M.A., University of California, A.B.D., Ph.D., Emory University
- Christopher D. Koch *German*
A.B., Columbia University; M.A., Michigan State University
- Arthur T. Kolgaklis *Business Administration*
B.S., Georgia Institute of Technology; M.B.A., Harvard Graduate School of Business
- Cornelia V. Lawson..... *Education*
B.S., Florida State University; M.Ed., University of Southern Mississippi; E.Ed., University of Arkansas
- Walter W. Leftwich *Mathematics*
B.S., West Virginia State College; M.S.P.H.E., North Carolina College at Durham
- Arthur Levy *Accounting*
B.S., University of Pittsburgh; C.P.A.
- Farnese H. Lumpkin *Art*
B.S., Bluefield State College; M.A., State University of Iowa
- Michael K. Maher *English*
B.A., Loras College; M.A., University of Georgia
- John L. Mason *Engineering Technology*
B.S., Bluefield State College; B.S.C.E., Howard University
- Yvonne H. Mathis *English*
B.S., Savannah State College; M.A. New York University
- Emogene S. Middleton *Guidance and Counselling*
A.B., Morris Brown College; M.Ed., Georgia Southern College

- Althea V. Morton..... *French*
 A.B., Spellman College; M.A., Atlanta University
- John H. Myles..... *Physical Education*
 B.S., Savannah State College; M.S.Ed., New York University
- Christine E. Oliver..... *Music*
 B.A., Bennett College; M.M.Ed., Indiana University
- George O'Neill..... *English*
 B.A., Youngstown State University; M.A., Ph.D., University of
 Southern California
- Min-tia Pao..... *Engineering Technology*
 B.S.E.E., Nat. Taiwan University; M.S.E.E., University of
 Alabama; Ph.D., (EE) University of Florida
- Dennis Potter..... *Engineering Technology*
 B.S., California State Poly Tech.; M.S., Utah State University;
 Ed.D., Utah State University
- Aurelia Robinson..... *Education*
 A.B., Spelman College; M.A., Atlanta University; Ph.D., Univer-
 sity of Oklahoma
- Delacy Sanford..... *Social Science*
 B.S., Savannah State College; M.A., Duquesne University; Ph.D.,
 State University of New York
- John Simpson..... *Social Science*
 B.A., North Texas State University; M.A., North Texas State
 University; Ph.D., University of Georgia
- Dorothy Smith..... *Mathematics*
 B.S., Savannah State College; M.S., South Carolina State College
- Steven Smith..... *Social Science*
 A.B., Mercer University; M.A., University of Georgia; Ph.D., Van-
 derbilt University
- Jacqueline W. Stephens..... *Education*
 B.S., Savannah State College; M.S., Illinois State University,
 Ed.D., University of Oklahoma
- Robert L. Stevenson..... *English*
 B.S., M.S., Tennessee A. & I. State University
- Essie Thompson..... *Accounting*
 M.A.S., University of Illinois
- James Thompson, Jr..... *Music*
 B.A., North Carolina College; M.M.Ed., University of Michigan

- Paul Chung-lien Tien *Engineering Technology*
 B.S.E.E., National Taiwan University; M.S.E.E., University of
 South Carolina; Ph.D., University of South Carolina
- Willie Waddell *Business Administration*
 B.S., Savannah State College; M.S., New York University
- Richard Washington *Physical Education*
 B.S., M.S., State University of Iowa
- Alma S. Williams *English*
 A.B., Spelman College; M.A., Atlanta University; M.M., Univer-
 sity of Maryland

INSTRUCTORS

- Bennie Arkwright, Jr. *Social Science*
 B.S., Savannah State College; M.S., University of Iowa
- Michael Backus *Social Science*
 B.A., Hampton Institute
- Hedi M. Bak *Art*
 M.F.A., Freie Akademie
- Ruby C. Black *Education*
 B.S., Savannah State College; M.Ed., University of Georgia
- Annette Brock *Social Science*
 B.S., Savannah State College; M.A., Duke University
- *Ernest S. Brown *Industrial Arts Education*
 B.S., Savannah State College; M.S., Bradley University
- Janie Bruen *Reading*
 B.S., Savannah State College; M.Ed., Georgia Southern College
- Ollie V. Buckner *Naval Science*
 B.S., Prairie View A & M, LTJG, USNR
- Ralph N. Churchwell, III *Naval Science*
 B.S., Tennessee State University, LCDR, USN
- Frank Ellis, Jr. *Physical Education*
 B.S., M.Ed., Savannah State College
- Charles J. Elmore *English*
 B.S., Savannah State College; M.A., The University of Michigan

- Joan S. Green..... *Reading*
B.S., Savannah State College; M.A., Atlanta University
- Gaye H. Hewitt *History*
B.A. University of Hawaii; M.A., East Texas State University
- *Otis S. Johnson *Social Science*
B.S., Savannah State College; A.B., University of Georgia; M.S.W.
Atlanta University
- Leo B. Lambert *Naval Science*
- Ernestine Lang *Early Childhood Education*
B.S., M.S., Savannah State College
- Willie G. McLemore *Reading*
B.S., Alabama A and M College; M.A., Atlanta University
- Altomease B. Magwood *Physical Education*
B.S., Savannah State College; M.A., Indiana University
- Hattie B. Rivers *Physical Education*
B.S., Savannah State College; M.A., Indiana University
- Marilyn J. Stone *Biology*
B.A., Hampton Institute; M.S., University of Georgia
- Nathan P. Stone..... *Engineering Technology*
B.S., Lafayette College; M.S., Georgia Southern College
- Diana Wagner *Home Economics*
B.S., M.Ed., Tuskegee Institute
- George Williams *Chemistry*
B.S., Savannah State College; M.S., Tuskegee Institute
- *Willie T. Yancey *Social Science*
B.S., Alabama State University; M.A., University of Michigan

*On Leave

ADMINISTRATIVE STAFF

- Felix J. Alexis..... *Director of Physical Planning*
 A.B., Xavier University
- Mildred S. Calloway *Administrative Assistant to the*
Dean of the College
 B.S., Savannah State College
- Vivian L. Chandler *Reference Librarian*
 M.S., Library Science, Atlanta University
- Rachel Claiborne..... *Guidance Counselor*
 A.B., Claflin College; M.Ed., South Carolina State College
- George Conlin..... *Associate Comptroller*
 B.S.B.A., Boston University
- Meloweze W. Cooper..... *Curriculum Materials Librarian*
 M.S., Library Science, Atlanta University
- David Foye *Director of Admissions*
 B.S. Savannah State College; M.A., Savannah State College
- Beautine W. Hardwick..... *Assistant Registrar and*
Administrative Assistant to the President of the College
 B.S., Savannah State College
- Juanita Harper *Administrative Secretary*
Student Personnel Services
 B.S., Savannah State College
- Josephine F. Hubert *Director, Secretarial Center*
 B.S., Savannah State College
- Edna Jackson *Information Counselor*
 B.S., Savannah State College; M.Ed., Savannah State College and
 Armstrong State College
- Shirley B. James..... *Guidance Counselor*
 B.S., Spelman College; Ed.M., Harvard University
- Gwendolyn Jones *Assistant College Nurse*
 L.P.N., Savannah Vocational-Technical School
- Ruby L. Jones..... *Assistant Catalog Librarian*
 M.S., Library Science, Atlanta University
- Venkatarathnam Koganti... *Accountant, Office of the Comptroller*
- Henri Lambert *Assistant College Nurse*
 L.P.N., Harris Area Trade School
- Elease C. Lawton..... *Dormitory Director, Lester Hall*
- Stephen M. McDew, Jr..... *College Physician*
 B.S., Savannah State College; M.D., Meharry Medical College
- Laura McGraw *Secretary to the Dean of the College*
 B.S., Savannah State College
- John W. Merritt *Procurement Officer*
 Savannah State College

Vernese Mikell..... *Secretary to the President*
 B.S., Savannah State College

Percy L. Miller *Postmaster*
 Savannah State College

Tommie Mitchell *Director, Financial Aid*
 B.S., Savannah State College

Robert Mobley *Audio-Visual Technician*
 B.S., Savannah State College

Alvin Ogden *Manager, Warehouse*

Jerome L. Pinkston, Jr. *Director of Testing*
 B.B.A., Texas Southern University

Anthony J. D. Sheffield..... *Personnel Director*
 B.S., Savannah State College

Harold Singleton..... *Director, Auxiliary Enterprises*
 B.S., Savannah State College

Yvonne Stevens *Guidance Counselor*
 B.S., Hampton Institute; M.S., M.Ed., Atlanta University

Doris R. Taylor *Dormitory Director, Lester Hall*
 Savannah State College

Henton Thomas *Director of Comprehensive Counseling Center*
 B.S. Savannah State College; M.Ed., Georgia Southern College

Jeanette Westley *Supervisor of Accounting and Payroll*
 B.S., Savannah State College

Herbert C. White *Acting Superintendent*
Buildings and Grounds
 B.S., Alabama A. and M. College

Dave Whiteis *Associate Director of Admissions*
and Financial Aids
 B.A., Birmingham Southern College

Samuel Williams *Assistant Director, Financial*
College Work Study Coordinator
 B.S., Savannah State College; B.D., Howard University

Sylvia Williams..... *Counselor*
 B.S., Savannah State College

EXTENDED SERVICES PERSONNEL

Wilton C. Scott, M.A. F. I. B. A. *Associate Dean*
for Extended Services

Patricia I. Pernell *Secretary*

DIVISION OF STUDENT SUPPORT AND SPECIAL PROGRAMS

Ella W. Fisher, M.A. *Project Director*

Jerry Whitlock, M.A. *Counseling Coordinator*

James Taylor B.S.....	<i>Curriculum Coordinator</i>
Willie Mae Robinson B.S.....	<i>General Program Counselor</i>
Doreatha Tyson B.S.....	<i>Program Counselor</i> <i>for Special Services</i>
William L. Anderson B.S.	<i>Program Counselor</i>
Edward Williams B.S.....	<i>Academic Specialist</i> <i>Mathematics & Science</i>
Mary Martin B.S.	<i>Academic Specialist</i> <i>English & Social Science</i>
Erma Jean Mobley.....	<i>Office Supervisor</i> <i>and General Secretary</i>
Leslie Palmer	<i>Clerk Typist</i>
Brenda Haines	<i>Clerk Typist</i>

COOPERATIVE EDUCATION PROGRAM

Dolores C. Hill B.S.....	<i>Project Director</i>
Juanita Jackson M.A.	<i>Assistant Director</i>

VETERANS ADMINISTRATION PROGRAM

Col. Welden F. Wright B.A.....	<i>Field Representative</i>
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GEORGIA SCHOLARSHIP COMMISSION

Shirley Johnson B.S.....	<i>Field Representative</i>
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FOSTER PARENT PROGRAM

Juanita Jackson M.A.	<i>Program Officer</i>
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B.E.E.P. BLACK EXPERIENCE IN ENVIRONMENTAL PROGRAMMING

Leroy Haven B.S.	<i>Field Officer</i>
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VETERANS AFFAIRS

Willie Jenkins B.S.	<i>Secretary</i>
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EPA - WATER POLLUTION OPERATOR TRAINING

Rosemary Banks M.A.	<i>Program Officer</i>
Ella P. Law M.A.	<i>Communication Skills</i>

Lelia Butler M.A.	<i>Mathematics</i>
Gerald Leigh, Ph.D.	<i>Consultant</i>
Paul Mills	<i>Instructor</i>

EMERGENCY SCHOOL AID ACT - ESAA

Ormonde Lewis B.S.	<i>Project Director</i>
Diane Harvey B.S., M.A.	<i>Program Coordinator</i>
Anna Greene B.A.	<i>Community Coordinator</i>
JoAnn Cook B.S.	<i>Human Relations Specialist</i>
Patricia Frost B.A.	<i>Communication Specialist</i>
Veronica Oliver B.S.	<i>Secretary</i>
Ann Beebe B.A.	<i>Editor</i>
Chris Fredeman B.S.	<i>Art Instructor</i>
Tharon Stevens M.A.	<i>Music Instructor</i>
Amanda Ladson.	<i>Administrative Clerk</i>

FIRE-FIGHTER TRAINING PROGRAM

Clifford Hardwick, IV	<i>Tutor-Counselor</i>
Gladys Smith	<i>Tutor-Counselor</i>

VETERANS EDUCATION AND ENRICHMENT PROGRAM

Mrs. Edith L. James M.A.	<i>Education Officer in Charge</i>
Mrs. Rosemary Banks M.A.	<i>Coordinator of Media and Guidance Service</i>
Mr. Arthur Small B.S.	<i>Education Specialist</i>
Mrs. Mary Mitchell M.A.	<i>Education Specialist</i>
Mrs. Mary Hamilton B.S.	<i>Education Specialist</i>
Ms. Karee Williams B.S.	<i>Education Specialist</i>
Everlena Salmon B.S.	<i>Secretary</i>
Rose Copeland	<i>Administrative Clerk</i>
Martha Murchison	<i>Clerk Typist</i>

VETERANS OUTREACH CENTER

Mr. Paul Courts B.S.	<i>Programmer-Planner</i>
Mr. Don Latorre B.S.	<i>Community Organizer and Public Affairs Officer</i>
Mr. Willie Jenkins B.S.	<i>Veterans Secretary and Outreach Counselor</i>
Mr. Esau Moore B.S.	<i>Field Counselor and Recruiter</i>
Ms. Pearle Steele.	<i>Secretary</i>
Ms. Elmera King.	<i>Clerk Typist</i>

LIAISON OFFICER AND P.S.E. COORDINATOR EMPLOYMENT AND RELATED PROGRAM

Mrs. Helen Cohen B.S. *Liaison Officer and P.S.E.
Coordinator*

Ms. Patricia Stergis *Administrative Clerk
Extended Services*

Ms. Carole Smiley B.S. *Assistant Counselor
Liaison Office*

Ms. Theadosia Reynolds *Administrative Clerk
Extended Services*

Ms. Eunice Mathis *Administrative Clerk
Veterans CO-OP Education*

NATIONAL ALUMNI OFFICERS

James O. Thomas *President*

Benjamin Lewis *Vice President*

Henry Collier *Executive Vice President*

William N. Weston *Eastern Vice President*

Raymond Knight *Northern Vice President*

Luther Conyers *Southern Vice President*

Clarence Lasseter *Midwestern Vice President*

Darnell Jackson *Western Vice President*

Rev. John E. Clark *Chaplain*

Henton Thomas *Reporter*

Tommie L. Mitchell *Treasurer*

Juanita Jackson *Secretary*

Matella Maree *Corresponding Secretary*

Prince A. Jackson, Jr. *President, SSC*

Robert L. Bess *Director, Development
and College Relations*

Jeffery Jenkins *Director of Alumni Affairs*

HISTORY, PURPOSE, PROGRAMS

HISTORY

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." A commission was appointed to procure the necessary grounds and buildings, and to prescribe a course of study that would include those studies required by the Morrill Land-Grant Acts of 1862 and 1890.

The Commission on the School for Negro Students was designated as the Board of Trustees for the School, with perpetual succession, subject to the general Board of Trustees of the University of Georgia. The Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1 and August 1, 1891, at the Baxter Street School building in Athens, Georgia. Richard R. Wright, the first principal, and three other instructors comprised the faculty. In the following year the school was moved to its present site, which is approximately five miles southeast of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. The school was given the name "The Georgia State Industrial College for Colored Youths," and its faculty consisted of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm.

During the thirty years that Major Wright served as President of the College, enrollment increased from 8 to 585 and the curriculum was expanded to include a normal division in addition to four years of high school. Training in agriculture and the mechanical arts also was begun.

The first women students were admitted as boarders in 1921; the first summer session was conducted in 1922; and in 1925 the governing body of the College was changed from a Commission with "perpetual succession" to a Board of Trustees whose members were appointed for four year terms. All of these changes occurred during the presidency of C. G. Wiley, who served from 1921 to 1926.

Under President Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal

departments were discontinued and the school became a four-year college. In 1931, when the University System was placed under a Board of Regents, the College began to offer bachelor's degree programs, with majors in English, the natural sciences, social sciences, and business administration, as well as in agriculture and home economics.

Until 1947, the College served as the state land-grant institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshman Week, and the Cultural Artists Series. Expanded programs of student personnel services and public relations, a reading clinic, and an audio-visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the College on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the College on March 1, 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions—Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Under the inspired leadership of Dr. Howard Jordan, Jr. (November 1, 1963 through January 31, 1971), significant, far-reaching and innovative programs were initiated in all aspects of the College's development. Curricula improvements in the general education program, in teacher education, and in business administration, as well as other areas, were carried forward. A graduate studies program in elementary education was initiated in the summer of 1968. The mantle of educational leadership at Savannah State College passed from Dr. Jordan to Dr. Prince A. Jackson, Jr. on February 1, 1971.

Many of the improvements and innovations begun during President Jordan's administration came to fruition during the first year of Dr. Jackson's tenure. At the time of his appointment, the new President was chairman of the Division of Natural Sciences and director of the Institutional Self-Study which resulted in reaccreditation of the College by the Southern Association of Colleges and Schools in December, 1971. During that same year the College was accredited by the National Council for the Accreditation of Teacher Education (NCATE). President Jackson, the first alumnus of the College to become its President, is providing vigorous and dynamic leadership geared to the task of increasing all of the College's resources and employing them to meet more effectively the rising aspirations of Black Americans and other disadvantaged persons for a richer and more rewarding life.

BUILDINGS AND GROUNDS

The campus, comprising 136 acres, presents a unique setting of natural beauty. Among its 40 buildings are three that were constructed during the administration of Major Richard R. Wright: Meldrim Hall, constructed in 1896 but rebuilt in 1926 after it had been burned down; Hill Hall (1901), and Hammond Hall (1915), both of which have been extensively renovated in recent years. Meldrim Hall now houses most of the administrative offices, Hill Hall most of the Federal Programs, and Hammond Hall is the present site of the Department of Home Economics.

W. K. Payne Hall, a two-story air-conditioned building, is the main classroom building. In addition to its fifteen classrooms it also provides office space for thirty-two instructors (including five departmental offices), data processing facilities, a secretarial center, a language laboratory, and a reading clinic. Most of the classes in the Education, English, Social Sciences, Modern Languages, and Special Studies Departments are held in this facility.

Other classroom buildings, and the Departments that each houses are: Herty Hall (1937) - Mathematics; Hubert Technical Sciences Center (1965)- Engineering Technology, Industrial Arts, and Naval Science (NROTC); Morgan Hall (1936) and Morgan Hall Annex - Business Administration, J. F. Kennedy Fine Arts Center (1967)- Fine Arts; the Griffith-Drew Center for the Natural Sciences (1971)-Biology, Chemistry, and Physics; Hill Hall - Business Administration and Extended Services; and Wiley-Wilcox Gymnasium Complex - Physical Education.

Completing the physical facilities picture of the campus are those edifices used for activities that are auxiliary, though nonetheless essen-

tial, to the instructional process, those used as student residence halls, and those used by the Plant Operations Staff. The Asa H. Gordon Library (1965) provides excellent library facilities, including a media center and an instructional materials center. This air-conditioned structure is a vital intellectual resource for the College and the surrounding community. The Martin Luther King-Vanetta Frazier Student Center (1969) complex houses the Student Personnel Offices, the College Refectory, and most of the offices directly involved in student life and student activities. Adams Hall (1931), formerly used as the College Refectory, is now an annex of the Student Center, while Powell Hall, constructed in 1932 as the Laboratory School for the College, is now a Nursery School-Kindergarten, and serves as the laboratory for the Early Childhood Education Program. Powell also houses the student-created Ethnic Culture Center.

Residence Halls include two recently completed ones, Smith-Bowens (1971) for women, and Melvin Bostic Men's Residence Hall (1972). Both dormitories are air-conditioned, as are A.E. Peacock Hall (1967) and Lockett Hall (1965). Peacock Hall accommodates 180 men, and Lockett Hall 180 women. Lester Hall (1965), a dormitory for young women, completes the list of residence halls now used for housing accommodations. Two other dormitory facilities, Camilla Hubert Hall (1938), and Wright Hall (1951) are being utilized to provide additional office space for Plant Operations (Hubert), and for Student Services and two departmental offices (Wright).

Most of the Plant Operations are directed from the Medgar Evers Plant Operations Complex, a modern facility that houses the main offices for Plant Operations and the College Warehouse.



PURPOSES AND OBJECTIVES OF THE COLLEGE

Savannah State College, a unit of the University System of Georgia, is a college of Arts and Sciences, Teacher Education, Business Administration, and Engineering Technology.

The College is strongly committed to the general philosophy of formal education which aims at the development of intellectual, vocational, physical, and social competence of the individual student, no matter what his future specialty may be. It also realizes that the aim of education is not only to enrich the minds of the students with new knowledge, but also to help them rise to their fullest spiritual and moral stature. In addition, the College acknowledges and accepts a special responsibility to encourage and assist the revolution of rising expectations among disadvantaged Americans. With these factors in view, the College seeks to provide an educational and social environment designed to overcome any motivational and/or educational deficits which the student might have, and then to help the student, whether he be disadvantaged or advantaged, to expand his knowledge, broaden his outlook, and develop his talents and individuality to the end that he can become a creative and active participant in the drama of life.

The College, therefore, has several missions to fulfill. It affords students an opportunity to acquire the kind of education that will enable them to contribute effectively to American society's continuing effort to become more democratic at home and more just in its relations with other members of the world community. It also provides continuing educational and cultural services for the people of Georgia and the larger community. Although emphasis has been placed on teaching and learning with the students at the core, the College also strives to utilize its facilities for the advancement of the welfare of the faculty, staff, and citizens of the immediate community which it serves. Thus, it is cognizant of the need to encourage subsidized institutes in order to upgrade in-service teaching. The College is also aware of the need to motivate faculty-student participation and involvement in community development programs.

Consistent with the above philosophy and purpose, the institution has several major objectives to cultivate the student's intellectual, artistic, cultural, and physical capacity to earn a respectable and responsible position in society.

They are designed to help a student:

1. To gain basic preparation, knowledge, and skills necessary to the satisfaction of his personal needs as well as the needs of home and society.
2. To acquire specialized training in one of the many available areas, and to develop individual talents and intellectual curiosity which are essential to further study and progress.
3. To broaden his understanding and appreciation of his own as well as other cultures.
4. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.
5. To acquire a motivation for self improvement, and to attain an awareness of social and civic responsibilities in order to carry out effectively the duties and obligations of good citizenship.

To attain these objectives, the College offers formal instruction organized within seven divisions: Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Military Science. Additionally, in pursuit of these goals, the College:

- A. Selects and upgrades teachers, counselors, personnel workers, and administrative and auxiliary personnel.
- B. Gives students due responsibility in making their own educational decisions with advice of the faculty, through their participation in the government of the College and a program of extracurricular activities.
- C. Draws upon available intellectual, cultural, and technical resources to enrich the lives of the students.

The total resources of the College are dedicated to the task of promoting the student's mental, physical, and emotional maturity.

GRADUATE STUDIES

In 1967 the Board of Regents of the University System of Georgia authorized Savannah State College to offer courses and related experiences leading to the degree of Master of Science in Elementary

Education. This program was in operation from June 1968 through August 1971, graduating a total of forty-one persons.

Beginning with the Fall Quarter of 1971, Savannah State College joined with its sister institution, Armstrong State College, to develop and operate a more comprehensive joint program of graduate studies. Faculty and other resources of the two schools are utilized in operating the program. Degrees are awarded jointly, with the Presidents of both institutions signing a specially designed diploma.

The Joint Graduate Program offers instruction leading to the Master of Business Administration and the Master of Business Education degrees, the Master of Education degree in Elementary Education, in Special Education (Behavior Disorders), and in the secondary education disciplines of Biology, Chemistry, English, Mathematics, History, and Political Science.

Complete information on admission requirements, courses, and academic policies may be found in the graduate catalog, which may be obtained by writing the Associate Dean for Graduate Studies either at Savannah State College, Savannah, Georgia 31404, or at Armstrong State College, Savannah, Georgia 31406.

BACCALAUREATE DEGREE PROGRAMS

Bachelor of Arts in History and Political Science

Bachelor of Arts in Social Work

Bachelor of Business Administration in Finance, and in Management and Marketing

Bachelor of Science in Accounting, General Business Administration, Economics, and Office Management

Bachelor of Science in Elementary Education

Bachelor of Science in Education, with majors in the secondary education fields of Biology, Business Education, Chemistry, English, French, Industrial Arts Education, Mathematics, Physics, General Science, Social Studies, Spanish, and Trades and Industrial Education

Bachelor of Science in Education, with majors (K-12) in Art Education, Music Education, and in Physical Education, Health, and Recreation

Bachelor of Science in Biology, Chemistry and Mathematics

Bachelor of Science in Criminal Justice

Bachelor of Science in Civil Engineering Technology, Mechanical Engineering Technology, and Electronics Engineering Technology

Bachelor of Science in Dietetics and Institutional Management

Bachelor of Science in English Language and Literature

Bachelor of Science in Textiles and Clothing

Bachelor of Science in Social Science

Supplementary Certification Programs¹

Early Childhood Education

Driver Education

Teacher-Librarian

Associate Degree Programs ²

Civil Technology

Drafting and Design Technology

Electronics Technology

Mechanical Technology

PREPROFESSIONAL PROGRAMS

Savannah State College offers preprofessional training for persons interested in pursuing such paramedical careers as medical technology, nursing, physical therapy, medical illustration, medical social work, and medical secretary. Preprofessional study is also provided for persons desiring to enter the professions of engineering, law, medicine, veterinary medicine, dentistry, and pharmacy.

GEORGIA INTERN PROGRAM

Students who are enrolled full-time at Savannah State College are eligible to participate in the Georgia Legislative Internship Program. Students selected to participate in the Program are assigned to a legislative office or to legislative committees in either the House or

¹These are programs that enable students to complete the certification requirements of the Georgia Department of Education, even though a formal major is not offered.

²Offered in cooperation with the Savannah Area Vocational-Technical School. Students may begin the two-year program at either school.

Senate, and work directly under and are responsible to the office head or committee chairman. This first hand experience of observing and participating in the legislative process is considered as part of the student's academic program and the student may receive academic credit for such participation. The program at Savannah State College is under the general direction of the Chairman of the Division of Social Sciences.

Extended Services

Savannah State College, through its Extended Services Program, offers a variety of services to the urban and inner-city communities. Extended Services consists of a variety of programs designed to supplement the regular academic program's efforts to meet the growing needs of these constituents.

The DIVISION OF STUDENT SUPPORT AND SPECIAL PROGRAMS, one of the largest Extended Services Programs, embraces three separate components: TALENT SEARCH, SPECIAL SERVICES, and UPWARD BOUND.

The TALENT SEARCH component is designed to find young persons with exceptional potential and assist in guiding them toward realistic goals. The program focuses on uncovering and developing aptitudes and developing employment potentials.

SPECIAL SERVICES offers supportive services to currently enrolled students who need counseling and tutorial assistance. This component seeks to develop student basic skills in reading, mathematics and communication. It also serves to stimulate interest in the general education program of the college as well as developing the self-image of the students served.

The third component, UPWARD BOUND, seeks to help raise the academic and cultural levels of eleventh and twelfth grade pupils who evidence potential for post secondary work but lack the motivation to prepare themselves to pursue such work successfully. The Upward Bound Project appraises them of educational opportunities in the form of scholarships and other aids which are open to them.

Savannah State College operates a VETERANS EDUCATION and ENRICHMENT PROGRAM which is designed for veterans who have not completed high school or who have graduated from high school but do not meet basic requirements for technical and vocational schools or colleges. It also provides basic education for veteran students who need refresher training before re-entering high school or college.

The EMERGENCY SCHOOL AID ACT PROGRAM is designed to provide the young people and adults of Chatham County a variety of opportunities for both cultural enrichment and improved human relations and communications on an interracial basis. The cultural enrichment program provides music and art instructors and ethnic culture presentations in an effort to encourage self-confidence and pride and community spirit. The Human Relations and communications aspect of the program services parents, teachers, administrators, community leaders and students in the implementation of methods necessary for enhancing ethnic group understanding.

The VETERANS OUTREACH CENTER is a clearinghouse, communication resource center and information and referral center for veterans. The center is operated by the college for the City of Savannah and is dedicated to assisting veterans in resolving their problems and realizing their potential.

Classes in COMMUNITY DEVELOPMENT and COMMUNICATIONS are designed as a part of the College's effort to become more involved in community affairs. The program focuses on strengthening the abilities of community leaders to render more effective service.



CORRESPONDENCE STUDY

PURPOSE

Correspondence study is designed to help students and adults to (1) complete part of their educational goal outside of academic residence (2) work and study on a limited basis (3) secure special scheduling other-wise unobtainable: and (4) develop independent study skills and creativity.

ELIGIBILITY

Generally, the requirements of registering for any credit course presuppose that the prospective enrollee is a graduate of an accredited high school or of a high school approved by Savannah State College. Students who are residents of Savannah State College are required to secure the permission from the Dean of the College prior to registration for credit.

SERVICE PERSONNEL

Men and women on active duty with the armed forces may enroll in most correspondence courses through the United States Armed Forces Institute (USAFI). Interested service personnel should consult their unit's Education Officer or write to United States Armed Forces Institute, Madison, Wisconsin 53703.

CREDIT

All correspondence courses in this Bulletin are equivalent to five quarter hours or three and one-third semester hours of undergraduate credit. Full compliance with registration procedures and satisfactory completion of courses(s) are necessary for credit. Students who work on a full time basis should carry a limited load. The maximum load of a full time student should correspond to that of students who are studying in residence. Credits earned may be used for partial completion of degree, certification, renewal of certificate and for educational and professional development. All credits are recorded and retained in the Office of the Registrar. Transcripts will be sent to designated offices at the request of students.

EXAMINATIONS

Students wishing credit for work done through this program must take the final examination under the supervision of one of the following persons: (1) College Testing Official, (2) A College Professor, (3) The Superintendent of his County or an authorized person in his office.

No examination may be taken until all papers are on record. Each student will make his own arrangements to take the examination. A form is provided in the manual on which the student will indicate where and when the examination should be mailed.

SPECIAL STUDIES PROGRAM

The Special Studies Program (originally called the Developmental Education Program) was initiated at Savannah State College in 1969, for the express purpose of providing basic and/or corrective instruction in English, reading, and mathematics for students demonstrating deficiencies in those areas. Although the Program was accorded departmental status in 1973, and its responsibilities expanded, its mission remains essentially the same, that is, assisting students to overcome those academic and motivational disadvantages that often impede their progress toward the achievement of academic goals.

THE LIBRARY

A modern library with a well-prepared staff serves the college and community. It houses over 90,000 cataloged volumes, approximately 960 periodicals, over 122,000 microforms, and 11,709 bound periodicals. Approximately 8,000 volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about Black Americans.

This air-conditioned, modular structure provides excellent library facilities. There are two main reading rooms with open stacks, a seminar room, lounging area, instructional media center, and a curriculum materials center. The latter affords prospective and in-service teachers an opportunity to examine and use recently published instructional materials. There is also a music room equipped with individual earphones and recordings of the best music. The library is the cultural and intellectual center of the College and community.

ADMISSION TO THE COLLEGE

GENERAL INFORMATION

A person who wishes to enroll at Savannah State College must file an application form which can be obtained from the Director of Admissions. If the applicant is a high school student he should file his application as early as possible during his senior year. All applications must be filed at least twenty days prior to the date of registration for the quarter in which the applicant plans to enroll. An applicant must be of good moral character, and must furnish evidence indicating that he or she has the ability to do college level work.

Each applicant for admission is required to submit a properly completed application form, a transcript or transcripts of previous academic work, test scores from the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board, a report of a recent physical examination, and a \$10.00 non-refundable application fee. Transcripts should be mailed directly from the applicant's former schools to the Director of Admissions. Information regarding the Scholastic Aptitude Test may be obtained from high school counselors, any college that is a part of the University System of Georgia, or from the College Entrance Examination Board, Post Office Box 592, Princeton, New Jersey 08540. The applicant should request that his scores be reported to the Director of Admissions, Savannah State College.

REQUIREMENTS FOR REGULAR ADMISSION

To be admitted as a regular degree-seeking student an applicant must meet the conditions specified above and in addition:

1. Must be a graduate of an accredited or approved high school, or he must have completed successfully the General Education Development (GED) Test;
2. Must have completed satisfactorily 16 units of high school work, with a cumulative grade-point average of not less than "C,";
3. Must present high school units distributed as follows: English - 4; Mathematics - 2; History - 2; Biological and Physical Sciences - 2; Social Science - 2; Optional - 4;

4. Must submit a recommendation from his/her high school principal;

5. Must have taken the Scholastic Aptitude Test, and must have achieved a score of 650 or more on the combined verbal and mathematics sections.

Savannah State College reserves the right to refuse to accept applications at any time when it appears that students already accepted for the quarter for which the applicant wishes to enroll will fill the institution to its maximum capacity. The college also reserves the right to reject an applicant who is not a resident of Georgia.

Savannah State College reserves the right to require that any applicant for admission shall take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations.

CONDITIONAL ADMISSION

Applicants for admission whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test are less than 650 will be granted Conditional Admission until they have taken the Comparative Guidance and Placement Program (CGP) tests in English, Reading, and Mathematics, and have achieved satisfactory scores on each test. Those students whose scores on the CGP are satisfactory will be granted regular admission. The "conditional admission" status will be continued for those students whose scores are unsatisfactory on any one of the CGP tests. These students will be referred to the Department of Special Studies, where they will be required to follow a course of study especially designed to assist them in overcoming any deficiencies in knowledge or skills revealed by the test results. As soon as their test performance indicates that these deficiencies have been overcome, they will be granted regular admission status.

TRANSFER STUDENTS

A limited number of transfer students may qualify for admission each quarter. General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from

other colleges, insofar as the regulations are pertinent to the applications of transfer students.

2. A student transferring from another college will supply the Director of Admissions with transcripts of his records at colleges previously attended. These transcripts must be sent directly from the registrars at the previous colleges to the Director of Admissions. The Director of Admissions will determine the applicant's academic qualifications on the basis of these transcripts. An applicant will not be considered for admission unless transcripts of his record show honorable discharge from colleges attended.

3. A student transferring from another college must show that at some time he has taken the College Entrance Examination Board Scholastic Aptitude Test, or that he has taken an equivalent test approved by Savannah State College. Scores on such tests must be submitted to the college.

4. Students transferring to Savannah State College must submit to the Director of Admissions a personal letter giving full explanation of their reason for desiring to transfer, their work experiences, studies, activities, special interests, and plans for the future.

5. Transfer applicants must pay a \$10.00 non-refundable application fee.

6. Persons who have earned grades of "C" or higher in courses taken at accredited colleges and who - in the judgement of the Committee on Admissions - have presented otherwise satisfactory credentials may be admitted. Those courses that are equivalent in both time and content to courses offered at Savannah State College may be accepted toward advanced standing, provided that a grade of "C" or higher was earned. Students transferring from any unit within the University System of Georgia will be credited for courses on the same basis as students originally enrolled at Savannah State College.

7. Credit allowed for hours completed in either extension or correspondence courses shall not exceed 45 quarter hours.

8. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level.

9. The college reserves the right to reject any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.

10. Courses accepted as credits for a degree must have been completed within eight years, counting from the time the first credits were acquired until the time all requirements for the degree have been met.

11. The evaluation of transfer credit is given a student upon admission. The college reserves the right to disallow transfer credit for courses if a student's subsequent grades in required courses in the same subject fall below average.

TRANSIENT STUDENTS

A student who has taken work in a college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

The following policies shall govern the admission of students with transient status:

1. The admissions officer of Savannah State College must be furnished evidence that the institution the student previously attended was an accredited or approved institution.

2. An applicant will be accepted as a transient student only when it appears that the applicant's previous academic work is of a satisfactory or superior quality. The Director of Admissions shall have the right to require the applicant to submit a transcript of his previous college work.

3. An applicant for admission as a transient student must present a statement from the dean or registrar of the institution that he last attended recommending his admission as a transient student. A transcript is not normally required.

4. Since the College's primary obligation is to its regularly enrolled students, Savannah State College will consider the acceptance of transient students only when their acceptance will cause no hardship or inconvenience to the institution or its regularly enrolled students.

AUDITORS

Regularly enrolled students at Savannah State College may be permitted to audit courses, provided permission is obtained from the instructor in charge of the course and the Dean of the College. A student auditing the course will not be placed on the rolls and no report will be made to the registrar.

Members of the faculty or staff of Savannah State College may audit courses, provided permission is obtained from the departments concerned and the Registrar.

SEMINARS, SHORT COURSES AND INSTITUTES

Applicants seeking admission to seminars, short courses, and institutes with programs of work that carry academic credit shall be required to meet all requirements prescribed for admission of students to regular academic programs.

Applicants who wish to enroll in non-credit seminars, short courses, and institutes shall produce evidence to prove:

1. That the applicant has the educational background and the ability to pursue successfully the program of work he wishes to take.
2. That the applicant is of good moral character; that he possesses a sense of social responsibility, and that he has a capacity for growth and development in the program for which he seeks admission.

In the case of an applicant seeking admission to a seminar, short course, or institute, Savannah State College shall have the right to prescribe the types of evidence that an applicant must submit in order to establish qualifications for admission.

IRREGULAR OR SPECIAL STUDENTS

Persons who desire to enroll in a course or courses but who do not intend to complete a specific degree or other program may register as special students. Any special student who decides subsequently to

enroll in a regular college program must then satisfy all of the requirements for regular admission.

JOINT ENROLLMENT PROGRAM

Savannah State College in cooperation with the Chatham County Public School System, offers an early admissions program for those students who have completed the eleventh grade in high school and who have demonstrated outstanding academic potential. The student may enroll full-time at the College while remaining on the rolls of his local high school. After successfully meeting all established criteria, the student may be awarded a high school diploma at the end of his freshman year in college. For further information on this program, the prospective applicant should consult his high school counselor and/or request information from the Admissions Office at Savannah State College.

UNIVERSITY SYSTEM OF GEORGIA RESIDENCY REQUIREMENTS

To be considered a *legal* resident of Georgia, the applicant must establish the following facts to the satisfaction of the Registrar.

1. (a) If a person is 18 years of age or older, he or she may register as a resident student only upon a showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
(b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
2. If a person is under 18 years of age, he or she may register as a resident student only upon a showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
3. A full-time faculty member of the University System and his or her spouse and dependent children may register on the payment of resident fees even though he or she has not been a legal resident of Georgia for the preceding twelve months.
4. Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may

register as students in the institution in which they are employed on payment of resident fees.

5. Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University System institutions on the payment of resident fees, when such teachers have been legal residents of Georgia for the immediately preceding nine months, were engaged in teaching during such nine month period, and have been employed to teach full-time in the public schools of Georgia during the ensuing school year.

6. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residence shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.

7. Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.

8. If the parents or legal guardian of a minor change his or her legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non-resident rate.

9. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

ESTIMATED GENERAL EXPENSES

(For One Academic Year of Three Quarters)

NOTE: Fees may be remitted by mail to expedite registration procedures but should be sent by money order, cashier's check or certified check payable to Savannah State College. Fees for any quarter may be paid prior to designated registration dates if desired, in order to avoid the congestion of registration. Fees paid in person will be accepted in the same form as those remitted by mail. No personal checks are accepted.

	Per Quarter	Per Year (3 Qtrs.)
Matriculation Fee	\$115.00	\$345.00
Health Fee	10.00	30.00
Student Activity	25.00	75.00
Total Charges—Day Student	<u>\$150.00</u>	<u>\$450.00</u>
Room, Board, & Laundry	305.00	915.00
Total Charges—Boarding Students	<u>455.00</u>	<u>1,365.00</u>

QTR. HOURS

TOTAL COST

5	\$ 48.75
6	88.50
7	98.25
8	108.00
9	117.75
10	127.50
11	137.25
12	145.00

Normal cost of books and supplies approximates \$50.00 per quarter.

All fees are due and payable at the time of registration. Persons granted scholarships or work-aid assistance will be notified in writing.

EXPLANATION OF FEES

APPLICATION FEE. A student applying for admission is required to pay a **NON-REFUNDABLE** application fee of \$10.00. This fee will not be credited toward other expenses. An applicant who fails to enroll

*Does not include non-resident tuition.

C/S \$15.00 per credit hour addition

for the quarter for which he is accepted must re-apply (including application fee) if he wishes to enter the institution at a later time.

ROOM DEPOSIT. Entering students and continuing students who live in the college dormitories are required to submit a room deposit of \$25.00 with their requests for room assignment. Upon registration this amount will be applied toward room charges for the quarter. If the student is not accepted by the college, this deposit will be returned in full. An applicant, who, after acceptance for admission, decides not to enroll at Savannah State College may secure a refund of his application deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted.

GRADUATION FEE. A charge of \$20.00 is made to all undergraduates to cover the cost of diploma and rental of cap and gown which is payable upon filing for graduation. All graduate students must pay \$20.00 to cover cost of diploma, hood and rental of cap and gown. These fees are payable to the college Bookstore and are not refundable.

HEALTH FEE. A charge of \$10.00 per quarter is required of each student to finance limited clinical services, bed care in the infirmary for minor illness, and general dispensary care.

LATE REGISTRATION FEE. Students who fail to register on the regular registration day will be charged a late registration fee of \$5.00 for the first day and \$1.00 each for the second and third days, the total not to exceed \$7.00.

MATRICULATION FEE. The charge for matriculation is \$115.00 per quarter for students registering for twelve (12) or more quarter hours. Students registering for less than twelve (12) quarter hours will be charged a matriculation fee at the rate of \$9.75 per quarter hours.

NON-RESIDENT TUITION. Students with residence outside of Georgia, registering for twelve (12) or more quarter hours will be charged non-resident tuition of \$180.00 per quarter.

Students with residence outside of Georgia, registering for less than twelve (12) quarter hours, will be charged non-resident tuition at the rate of \$15.00 per quarter hour.

ROOM, BOARD AND LAUNDRY. All students living in the dormitories are required to purchase two meals per day per quarter in the college dining hall. Students will be permitted to live in off-campus

housing only after all available spaces on the campus have been assigned.

SPECIAL EXAMINATION FEE. A fee of \$1.00 is required for each special, delinquent or validation examination. Arrangements for such examination must be made with the Dean of the College.

STUDENT ACTIVITIES FEE. A student activities fee of \$20.00 per quarter is required of each student carrying six (6) or more quarter hours.

TRANSCRIPT FEE. No charge is made for the first transcript issued at the request of a student. A fee of \$1.00 will be charged for each additional transcript.

REFUND OF FEES

Students ill at home or otherwise unable to follow the official procedure for withdrawing, should write or have someone write to the Dean of Students, requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of such term. The matriculation fee and non-resident fee are subject to the following refund policy which was adopted by the Board of Regents on January 20, 1947:

For students who withdraw during the first week after registration for the quarter, 80% of the fees may be refunded; for students who withdraw during the second week a refund of 60% will be made; for students who withdraw no later than the end of the third week following registration, a refund of 40% may be granted; for students who withdraw during the fourth week following the scheduled registration date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth week following registration.

Room, board and laundry charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitories must secure a permit from the personnel dean. This permit when submitted with the dining hall meal book will entitle the student to a refund.

The student activity fee is not refundable. In addition, refunds will not be made to students who do not withdraw officially; nor will refunds be given for reduced loads unless the reduction occurs during the schedule adjustment period.

All refunds will be processed and mailed to the student within two weeks following the end of the refund period.

FINANCIAL ASSISTANCE

The *COLLEGE WORK-STUDY (CWS) PROGRAM* provides jobs for students who have great financial *NEED* and who must *EARN* a part of their educational expenses. You may apply if you are enrolled at least half-time as a *GRADUATE*, *UNDER-GRADUATE*, or *VOCATIONAL* student in an approved postsecondary educational institution.

The Savannah State College, as a participant in College Work-Study, arranges jobs on campus or off campus with a public or private non-profit agency, such as a hospital. If you are found to be eligible, you may be employed for as many as 40 hours a week.

In arranging a job and determining how many hours a week you may work under this program, the financial aid officer will take into account: (1) your *NEED* for financial assistance; (2) your *CLASS SCHEDULE*; and (3) your *HEALTH* and *ACADEMIC PROGRESS*.

Students who plan to apply for part-time work should note carefully:

1. *No student should attempt to enter Savannah State College unless he is prepared to pay the major part of his total college expenses.*

2. *All students are required to pay all entrance expenses when they register. Money earned through part-time work may thereafter be credited to the monthly account.*

Students are assigned to work only after they have been admitted and have arrived on the campus. Work assignments are made by the Director of the College Work-Study Program.

Scholarships and Loans

A limited number of special scholarships are available to selected students who meet the required standards of scholastic merit, high character, general promise, and superior achievement in certain specific areas of the college program.

Regents' State Scholarships

The Board of Regents of the University System of Georgia sponsors a program whereby Georgia residents who are currently enrolled at

Savannah State College and prospective students who are residents of the State of Georgia may qualify for Regents' State Scholarships. These scholarships were established for the purpose of assisting students of superior academic ability who need financial aid in order to attend college. These scholarships are competitive and eligibility is determined by a student's performance on the CEEB SAT V and M scores and high school or college cumulative grade average. Applications are handled through the Office of the Dean of Students.

Rosenzweig Scholarship Fund

This scholarship was established in 1964 through the generosity of the late Mr. Abraham Rosenzweig and his family and is awarded each year to a junior student with the highest cumulative grade-point average. This scholarship is given at the annual Awards Day program and the selection is made by the Scholarship Committee.

National Direct Student Loan Fund

The *NATIONAL DIRECT STUDENT LOAN (NDSL) PROGRAM* is for students who are enrolled at least half-time in a participating postsecondary institution and who *NEED* a loan to meet their educational expenses.

You may borrow a total of: (a) \$2,500 if you are enrolled in a vocational program or if you have completed less than two years of a program leading to a bachelor's degree; (b) \$5,000 if you are an *UNDERGRADUATE* student who has already *COMPLETED 2 YEARS* of study toward a bachelor's degree. (This total *INCLUDES* any amount you borrowed under *NDSL* for your first two years of study); (c) \$10,000 for *GRADUATE* study. (This total *INCLUDES* any amount you borrowed under *NDSL* for your undergraduate study.)

REPAYMENT begins 9 months after you graduate or leave school for other reasons. You may be allowed up to 10 years to pay back the loan. During the repayment period you will be charged 3 percent interest on the unpaid balance of the loan principal.

No payments are required for up to three years while you serve in the Armed Forces, Peace Corps, or VISTA.

Submit your application to the office of Financial Aid. They will tell you about loan cancellation provisions for borrowers who go into certain fields of teaching or specified military duty.

The *GUARANTEED STUDENT LOAN PROGRAM* enables you to borrow directly from a bank, credit union, savings and loan association, or other participating lender who is willing to make the educational loan to you. The loan is guaranteed by a State or private nonprofit agency or insured by the Federal Government.

You may *APPLY* for a loan if you are enrolled or have been accepted for enrollment at least half-time in an eligible *COLLEGE* or *UNIVERSITY*, a *SCHOOL OF NURSING*, or a *VOCATIONAL, TECHNICAL, TRADE, BUSINESS*, or *HOME STUDY SCHOOL*. You do not need a high school diploma in order to borrow.

The *MAXIMUM* you may borrow is \$2,500 a year (in some States it is less). Your *INTEREST* cannot be more than 7 percent.

The *TOTAL* amount you may borrow for undergraduate or vocational study is \$7,500. The total is \$10,000 for graduate study alone or in combination with undergraduate study.

To apply for the *FEDERAL INTEREST BENEFITS*, you must submit to the lender a *RECOMMENDATION* from your school as to the *AMOUNT* you *NEED* to meet educational expenses. If you qualify for these benefits, the Federal Government will pay the interest for you until you must begin repaying the principal.

If you do not qualify for Federal Interest Benefits, *YOU MAY STILL BORROW*; but you will have to pay your own interest from the time you take out the loan until it is paid off.

All borrowers must submit an *AFFIDAVIT* that the loan will be used only for educational purposes. It must be signed before a notary or other person authorized to administer oaths.

The *LOAN MUST BE REPAYED*. Payments begin between 9 and 12 months after you graduate or leave school and you may be allowed to take up to 10 years to pay it off. The *AMOUNT* of your payments depends upon the size of your *DEBT*; but you must pay at least \$360 a year.

You do not have to make payments for up to 3 years while you serve in the Armed Forces, Peace Corps, or VISTA, or for any time you return to full-time study.

Pickett and Hatcher Educational Fund

This fund was established by the late Mr. Claud Adkins Hatcher of Columbus, Georgia, for the purpose of helping worthy and deserving students in the pursuit of their college education. Applications and additional information may be secured from the Pickett and Hatcher Educational Fund, P. O. Box 2128, Columbus, Georgia.

Law Enforcement Education Program

This program is intended to develop professional law enforcement officers through higher education. It provides educational opportunity through financial aid and is directed to students having the ability and desire to provide professional performance in the criminal justice system.

Two types of financial aid are provided:

1. A loan not to exceed \$1,800 per academic year for full time study toward a certificate, associate or higher degree in areas (directly) related to and required in law enforcement; and

2. Grants not to exceed \$200 per quarter for part-time study of degree-creditable courses related to and useful in law enforcement.

Grants are limited to law enforcement officers, and loans are available to full-time students, pre-service or in-service. An eligible officer may also qualify for a loan if he is both a full-time student and a full-time employee.

Students are carefully selected, taking into consideration their sincerity and willingness to pursue careers in criminal justice.

The *SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG) PROGRAM* is for students of *EXCEPTIONAL FINANCIAL NEED* who without the grant would be unable to continue their education.

You are eligible to apply if you are enrolled at least half-time as an *UNDERGRADUATE* or *VOCATIONAL* student in an educational institution participating in the program. Graduate students are not eligible.

If you receive an *SEOG*, it cannot be less than \$200 or more than \$1,500 a year. Normally, an *SEOG* may be received for up to four

years. However, the grant may be received for five years when the course of study requires the extra time. The total that may be awarded is \$4,000 for a four year course of study or \$5,000 for a five year course.

If you are selected for an *SEOG*, your educational institution must provide you with *ADDITIONAL FINANCIAL ASSISTANCE* at least equal to the amount of the grant.

The *BASIC EDUCATIONAL OPPORTUNITY GRANT PROGRAM* (*Basic Grants*) makes funds available to eligible students attending approved *COLLEGES, COMMUNITY/JUNIOR COLLEGES, VOCATIONAL SCHOOLS, TECHNICAL INSTITUTES, HOSPITAL SCHOOLS OF NURSING*, and other post-high school institutions.

In academic year 1974-75, you may apply for a Basic Grant if you are entering an *APPROVED* postsecondary educational institution for the *FIRST TIME* after April 1, 1973, and are enrolling on a *FULL-TIME* basis.

To *APPLY* for a Basic Grant, you must complete a form called "*APPLICATION FOR DETERMINATION OF BASIC GRANT ELIGIBILITY*."

You may get copies of the application from *POSTSECONDARY EDUCATIONAL INSTITUTIONS, HIGH SCHOOLS, TALENT SEARCH, UPWARD BOUND PROJECTS*, and *PUBLIC LIBRARIES*, or by writing to P.O. Box 84, Washington, D.C. 20044.

STUDENT LIFE

Savannah State College makes a concerted effort to insure wholesome personal development and growth for those students who reside in its dormitories. Residence halls for men and for women are equipped with essential furniture. Students provide their own bed linen, blankets, towels, bedspreads, and scarfs.

Residential life of women students is supervised by the Dean of Students and head residents. Through dormitory clubs, the women students help to plan dormitory activities and participate in developing standards of conduct and determining social regulations for the groups.

Dormitory life for men is supervised by the Dean of Students and the head resident. Practice in democratic living is provided through dormitory organization, enabling the men to work with the staff in planning projects, stimulating achievement, and promoting optimum personal development.

All out-of-town students are required to live in the dormitories and use the dining facilities as long as space is available in the dormitories.

STUDENT CONDUCT

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The College reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the college community.

RELIGIOUS LIFE

Savannah State College puts great emphasis upon a rich and varied religious life program. Through its religious activities, the College seeks to develop an understanding of and an appreciation for the place of religion in everyday living, to deepen spiritual insight, and to make the practice of religious principles a vital part of the life of the well educated citizen.

The annual Religious Emphasis Week provides opportunities for religious growth and development under the supervision of the Religious Life Committee.

POLICY ON USE OF DRUGS

The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of any narcotic or dangerous drug controlled by federal or Georgia law is prohibited. Violators are subject to arrest and prosecution.

STUDENT PERSONNEL SERVICES

The Dean of Students at Savannah State College is responsible to the President for the over-all administration of the student personnel program.

In the broadest sense, the student personnel program is concerned first with the life of the student outside the classroom. This definition, however, is inadequate as every person involved in student personnel work at the College, as is true of the faculty and other administrative officers, is deeply interested in the academic work of our students. The intellectual development of the student is and must continue to be the primary objective of Savannah State College.

The rationale for having an effective student personnel program is that among those engaged in the process of learning, the students who are best equipped to gain most from individual study are the ones who have been properly selected for college, are physically and emotionally healthy, are well-adjusted and strongly motivated, are pursuing programs of studies suited to their interests, aptitudes, and abilities, have had minimized their financial and personal problems, have reasonable recreational and social opportunities, and are adequately housed and properly fed.

The purpose of the student personnel program is the establishment of these optimum conditions for each student. It should be noted, however, that these objectives are not exclusively the province of the student personnel staff as the entire faculty and staff are involved in their fulfillment.

The doors of the office and the services of the student personnel staff are never closed to those students who need and seek help.

Orientation

The orientation program is under the supervision of the Office of Student Affairs. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training here, and with specialized vocational guidance. This program concentrates on all freshmen and new students entering the College in the first week of the fall quarter. Students derive from the program their immediate informational needs.

A follow-up course dealing with the psychology of human relationships, required of freshmen and transfer students, is designed to facilitate the process of total adjustment to college and to guide the student's thinking in reference to the social forces that affect him daily.

Counseling and Guidance

A counseling and guidance service is provided for all students through the offices of the Dean of Students and his staff, and the Com-

prehensive Counseling Program. Professional counseling and services are provided students in the following areas: admissions, scholarships, work aid, health, religious values, social activities, job placement, and general life planning. Advisors in all departments provide counseling for course registration and problems that arise in connection with the academic work and progress of students. The duties of the advisor are to assist the student in selecting subjects, to aid him in interpreting the requirements, to guide him in important matters. In case of any proposed change in his program, a student should consult his advisor, who will judge the reason for the change and make recommendation to the Dean of Faculty. However, a student may not change his major during the registration period, nor during the week before and the week after registration. The responsibility for selection of courses rests, in the final analysis, upon the student. It is the primary duty of the student to meet the requirements of his curriculum. A request from the advisor to the student for conference should be complied with promptly.

Health Services

The college health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the schools' physician and the schools' nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illnesses.

Veterans Services

The Veterans Counselor is responsible for assisting veterans and dependent children (orphans of veterans) in receiving benefits from the Veterans Administration. He collects and disseminates information to veterans and dependent children, and counsels with them throughout the year about regulations and directives peculiar to their status.

All the curricula of Savannah State College are fully approved by the Veterans Administration for veterans and dependent children.

Veterans and dependent children are urged to report personally to the Veterans Counselor immediately after their admission to the College.

STUDENT ACTIVITIES

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to

participate in a wide range of significant activities. Through the efforts of organized groups, programs are planned for the social, religious, and cultural advancement of the college community.

Student Government Association

The Student Government Association, composed of representatives of all classes, works with the administration in the governance of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The choral society, band, and men's glee club are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.



ACADEMIC REGULATIONS

CLASS ATTENDANCE

In classroom exercises and in laboratory and other class related activities, Savannah State College endeavors to provide optimum conditions for student learning. Class attendance is therefore required of all students in order to ensure that they will have at least been exposed to the many opportunities that are provided for their benefit. It is recognized, however, that extenuating circumstances may at times make it difficult for students to meet this requirement. The following exceptions are provided to take care of such contingencies. Any student is allowed unexcused absences equal to two times the number of credit hours that a particular course carries. In addition, excused absences may be granted by the head of the department in which the student is majoring in circumstances involving personal illness or injury, or the illness or death of a close relative. Students who exceed the allowable number of unexcused absences may be dropped by an Instructor provided the student has been given a written warning at the time that his/her absences equal two-thirds ($\frac{2}{3}$) of the maximum limitation.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D the lowest passing grade. Grade distinctions and quality point values are:

<i>Grade</i>	<i>Meaning</i>	<i>Quality Point Value</i>
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour

All courses in the major or minor in which the grade of D is earned must be repeated. The grade of D, like higher grades, is final and can not be raised by make-up work or examination. When a course is repeated, credit may be received only once, with the highest grade only being used to compute the cumulative average.

The grade "F" indicates that the student has failed to meet the minimum requirements of the course.

REPORTING OF GRADES

At Mid-quarter, and at the end of each quarter each faculty member submits to the Office of the Registrar the Grade Reports for each of his

classes. These Reports are prepared in multiple copies, with copies for the Registrar, the Dean of the College, the Department Head, the Instructor, and a copy for posting in a conspicuous place for purposes of student information. In addition, each student receives a Grade Report at the end of each quarter containing the grades and credit hours earned in each course in which he was enrolled, his grade-point average for the quarter, and his cumulative grade-point average.

Mid-quarter Grade Reports contain grades for those students who are doing unsatisfactory work, i.e., whose averages are below C.

CHANGES IN GRADES

Once a grade has been reported to the Registrar it can be changed only under the following conditions:

1. Upon presentation to the Dean of the College conclusive documentary evidence that the grade was reported in error; or
2. By following the procedure described below for removal of an I (incomplete) grade.

REMOVAL OF INCOMPLETE (I) GRADES

The grade I (Incomplete) indicates that a student has completed satisfactorily all except a small portion of the required work of a course, and that he/she continued in class until ten or fewer days remained in the Quarter. The student may remove the I by completing the remaining requirements within one year of the time that he next enrolls in school.

WITHDRAWAL (W)

The grade W is given by the instructor *when a student who was officially enrolled in a course withdraws from the course by the end of the sixth week of classes*. The student must have withdrawn formally by filing the appropriate forms with the Registrar, who in turn will notify the instructor, listing the date on which the withdrawal occurred. *The instructor shall report a grade of F for those officially enrolled students who stop attending class but who fail to complete an official withdrawal.*

The grade WP (withdrew while passing) shall be reported for a student *who withdraws from the College* while doing satisfactory work in a course. The grade WF (withdrew while failing) shall be reported if the student's work at the time of withdrawal is unsatisfactory.

A student will be given a grade of *F* if he/she is doing unsatisfactory work in a course and does not take the final examination. If such a student is doing satisfactory work the instructor shall report a grade of I.

PROCEDURE FOR WITHDRAWAL FROM COLLEGE

Students at Savannah State College are regarded as young adults who are capable of making mature decisions, with minimum counseling, about their educational plans. Accordingly, any student who feels that circumstances require his withdrawal from the College may do so by filing the appropriate forms in the Office of the Dean of Students. The Dean of Students will counsel with the student in an effort to determine whether the circumstances are such that the College can provide a remedy which will make it possible for the student to remain in school. If such remedy cannot be afforded, the Dean of Students, or his designated representative, will formally approve the request for withdrawal and forward the appropriate forms to the offices of the Dean of the College, the Registrar, and the Comptroller.

Students not able to follow this procedure should write or have someone write to the Dean of Students, requesting permission to withdraw. Students who withdraw without giving formal notice will forfeit claims for any refunds.

MID-QUARTER GRADES

Each faculty member submits to the Office of the Registrar a report of all deficient grades (D's and F's). The Office of the Registrar in turn sends copies of such reports to the students, their parents or guardian(s), and to department heads.

CALCULATING THE SCHOLASTIC AVERAGE

A student's cumulative grade-point average is determined by dividing the number of quality points by the number of quarter hours of courses taken. In calculating the cumulative averages, only the highest grade made in a repeated course may be used.

CLASSIFICATION OF STUDENTS

A student will be classified as a freshman, sophomore, junior, or senior according to the number of quarter hours of work that he has attempted for which final grades are recorded. The following system of classification is observed:

Freshman: 0-45 hours
Sophomore: 46-89 hours

Junior: 90-134 hours
Senior: 135 hours and above

STUDENT LOAD

Under ordinary circumstances a student in good standing may enroll in courses up to but not in excess of eighteen (18) quarter hours. Exceptions may be made for students who are within two Quarters of graduation, provided that total hours carried for credit do not exceed twenty-one (21). Credit for an overload will not be granted, however, unless it has been recommended by the student's adviser and approved by the Dean of the College.

SCHOLARSHIP STANDARDS

Savannah State College is operated for students who demonstrate seriousness of purpose and ability and disposition to profit by college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scholastic discipline. At the end of each quarter the Office of the Registrar computes cumulative grade-point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Dean of the College prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

1. Any student who earns a D or F in Humanities 107, 108, or 109, or in any course required in his/her major, minor, or professional education sequence must repeat the course during the next quarter that it is offered.

2. Freshmen (0-45 hours) or transfer students who fail to achieve a cumulative average of at least 1.00 after one quarter of residence will not be permitted to enroll during the succeeding quarter. (Grades received in Basic English and mathematics courses will not be considered in computing grade point average).

3. Freshmen who achieve a minimum cumulative grade-point average of 1.00 but not more than 1.50 will be placed on academic probation.

4. Upperclassmen (46 hours and above) who fail to achieve or maintain a cumulative average of at least 2.00 will be placed on academic probation.

5. A student on probation (1) may not register for less than ten hours if resident student (five hours if commuting student) nor more than thirteen hours; (2) must repeat all courses in which he earned the

grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic adviser for counseling service immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.

6. A student on probation whose cumulative average decreases will not be permitted to register for the succeeding quarter.

7. If the student on probation does not remove his probationary status in two succeeding quarters in residence, or maintain a minimum grade point average of 2.50 for each of the two succeeding quarters, he shall be suspended for one quarter. If a student maintains a minimum grade point average of 2.50 while on probation for two succeeding quarters, his probationary period will be extended as long as he maintains this grade point average each successive quarter enrolled.

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who likewise, have not incurred any academic deficiency, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the Honor Roll.

2. Students who maintain an average of 3.50 or higher, in a full program in a quarter will have their names placed on the Dean's List for the following quarter.

3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally, students whose general average is 3.00 or better may be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety quarter hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point averages for the entire period of college attendance:

<i>Cum Laude</i>	3.00
<i>Magna Cum Laude</i>	3.40
<i>Summa Cum Laude</i>	3.75

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. A minimum of 185 quarter hours, including health, physical education, and orientation.
2. A scholastic average of "C" or higher.
3. Satisfactory completion of the minimum requirements of the Core curriculum as outlined for Area I, II, and III and in the specific degree programs for Area IV.
4. Satisfactory completion of the University System of Georgia Language Skills (Rising Junior) Examination.
5. A prescribed divisional or departmental major (such as business administration, chemistry, education, or technical sciences) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "C" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this College.
6. Residence of at least one year at Savannah State College. Students who entered the college in September 1955 and thereafter are required to spend the senior year in residence.
7. Satisfactory completion of the major comprehensive examination as prescribed by the specific department in which the student is majoring.
8. Completion of all of the above requirements within eight calendar years. The College reserves the right to allow exceptions to the requirement when recommended by the head of the department in which the student is majoring.
9. Submission of a formal application for the degree to the Office of the Registrar in accordance with the time schedule listed in the College Calendar.

CORE CURRICULUM

AREA I, HUMANITIES 20 HOURS REQUIRED

Courses	Hours
Humanities 107-108-109	15
Humanities 232	5

AREA II, MATHEMATICS AND NATURAL SCIENCE 20 HOURS REQUIRED

Courses	Hours
Mathematics 107,108, 110	5-10
Choose one ten-hour sequence from the following:	
Biology 123-124 or 126-127	10
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-204	5-10

AREA III, SOCIAL SCIENCE 20 HOURS REQUIRED

Courses	Hours
Social Science 101-102	5-10
Courses selected from the following:	10-15
Political Science 200-201	
Social Science 111, Social Science 201,	
Economics 201	
History 200-201	

AREA IV, Courses Appropriate To The Major 30 HOURS REQUIRED

Courses in this area are listed under the curricula of the respective Divisions and Departments of the College.

THE UNIVERSITY SYSTEM LANGUAGE SKILLS EXAMINATION (Formerly Rising Junior Examination)

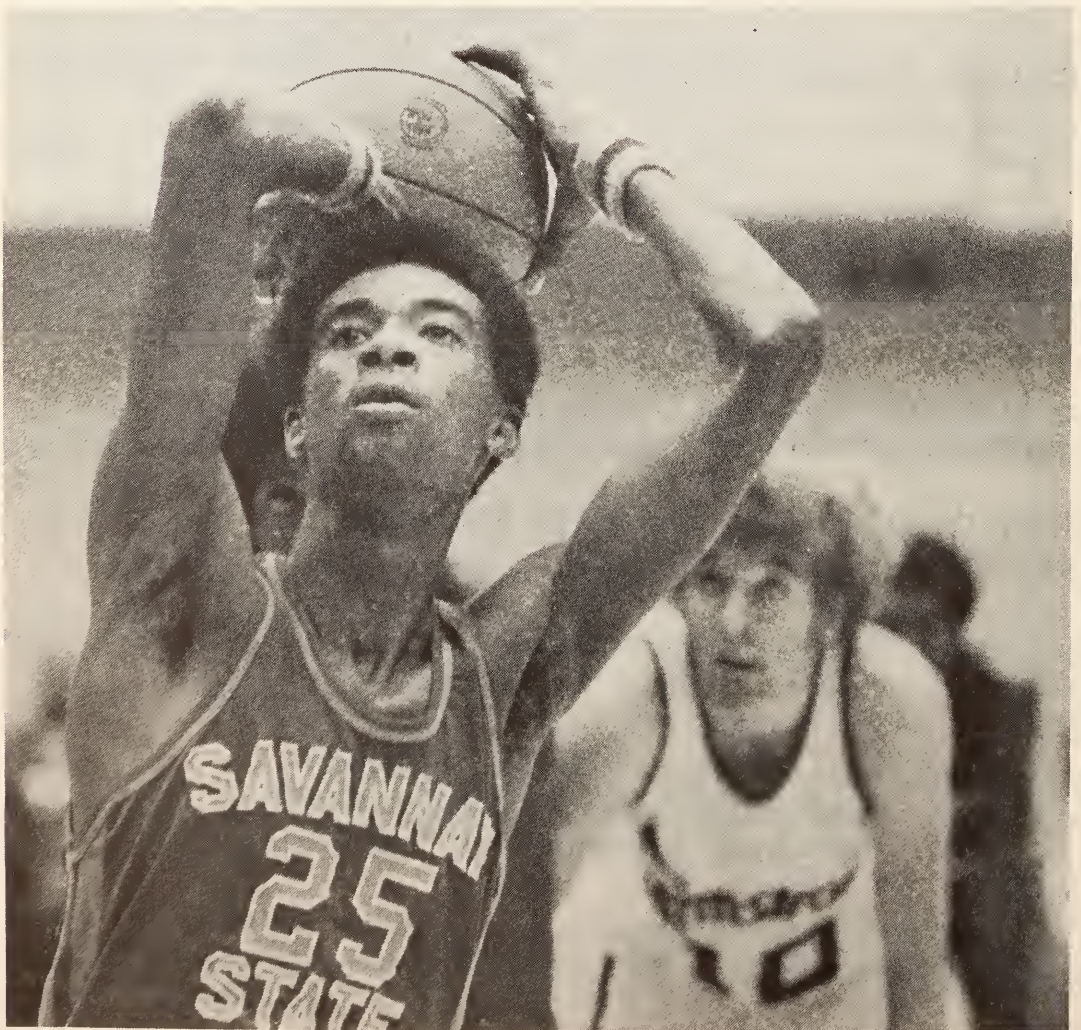
To be eligible for graduation, all students enrolled in degree programs are required by the University System to successfully com-

plete a test of competence in the areas of reading and writing Standard English. A student is eligible to take the Language Skills Examination after having completed the third quarter of the regular freshman sequence of courses which must include HMN 107-108-109. No student may delay taking the test later than the quarter after he has completed his 75th credit hour. Transfer students who have not successfully completed the test must do so at their earliest opportunity.

Students who have failed the Language Skills Examination must limit their class loads to 12 quarter hours (not including ENG 200) until this test requirement has been successfully completed.

ANY STUDENT WHO FAILS TO TAKE THE LANGUAGE SKILLS EXAMINATION BEFORE HIS APPROPRIATE DEADLINE WILL BE DENIED PERMISSION TO REGISTER FOR SUBSEQUENT QUARTERS UNTIL THIS REQUIREMENT IS MET.

For test dates, see the Academic Calendar published in this Catalog.



DIVISION OF BUSINESS ADMINISTRATION

MARY CLAY TORIAN, *Chairman*

Hayward Anderson
Albertha E. Boston*
O. Carver Byrd
Johnny Campbell
J. Dennis Chasse
M. Latif Javed
Max Theo Johns

Arthur T. Kolgaklis
Arthur Levy
Warren Mitchell
Herbert A. O'Keefe
R. B. Singh
Essie Thompson
Willie T. Waddell

The main purpose of the Division of Business Administration is to provide for students a sound educational foundation for socially effective and gainful employment in the business world. Specifically, through curricular offerings, supervised work experience, cocurricular activities, and individual counseling for careful selection of courses in accordance with student aptitudes and interests, the Division prepares students for:

1. Employment as accountants, administrative level secretaries, salesmen, and for mid-management positions in business;
2. Operation, management, and ownership of business enterprises;
3. Teaching business subjects in the secondary school;
4. Further study in accounting, business economics, general business, business education, and other specialized areas in business.

To realize these aims, the Division offers courses leading to the Bachelor of Science in Business Administration, Bachelor of Business Administration, and a terminal program leading to a certificate of proficiency in various phases of office administration.

Degree Programs

A student in business administration may pursue a major in one of six general areas: (1) Accounting. (2) general business administration, (3) Economics, (4) office administration, and in cooperation with Armstrong State College; (5) finance or (6) management-marketing. Persons desiring to become certified as teachers of business subjects on the secondary level will enroll in business education

* On Leave

major area of teaching specialization in the Division of Business Administration; and will complete professional education courses in the Division of Education as a minor, inasmuch as he must also meet requirements set by the Division or State Department of Teacher Education and Certification.

COOPERATIVE PROGRAMS. Through cooperative interchange with Armstrong State College, it is possible for a business major to complete requirements for specializations in marketing and finance, and a wider variety of restricted electives in accounting, general business administration, finance, and economics is available. A student is permitted to take courses at Armstrong on a fee-free basis as long as the total number of hours does not exceed the maximum load per quarter.

TYPEWRITING PROFICIENCY. While proficiency in typewriting is required for all majors, registration in a formal course in typewriting is not required of any major specialization area except business education and office administration. Satisfaction of such proficiency may be ascertained through a typewriting test. To prepare for the proficiency test requirements (a minimum of 30 words per minute), a student may elect to register for one or more courses in typewriting as a part of his free electives. Certification of typewriting proficiency shall be filed with the Registrar. Credit hours, however, shall not be awarded unless the student is officially enrolled in a formal course.

ACADEMIC COUNSELING. Students undertaking work toward a degree in the Division obtain contractual programs of work upon entrance to the Division at the beginning of the Sophomore year. This document lists requirements, optional electives, and blocks of courses in the major area of specialization from which the student may select to fulfill requirements for graduation. The curriculum contract is used as a guide for counseling and at each registration period until graduation. A copy is maintained in the student's personnel folder in the Division; one copy is filed with the Registrar; and one is retained by the student. Inasmuch as there are broad areas of electives, both restricted, and non-restricted, it is essential that the student seek counseling and observe the sequential arrangement of requirements before selecting courses for periodic registration.

The Division Chairman is general adviser to all students in the Division of Business Administration, and special academic advisers are assigned to each student upon entrance to the Division on the basis of specialization areas and freedom of choice by the student.

At the beginning of the Senior year, when the student acquires 135 quarter hours, he files an application for the degree with the Registrar, duly approved by the Division Chairman, and includes a listing of courses completed, grades and quality points earned, a record of all other college requirements, and the date of expected graduation.

COOPERATIVES AND INTERNSHIPS. The Division encourages students to obtain work experience in the areas of vocational choices during the formal four-year program. Several opportunities are available through the Division: (1) In cooperation with the "Big Eight" Accounting Firms, the Winter Quarter Full-Time Internship experience is available to majors in accounting in the Junior and/or Senior Years; (2) The U. S. Department of Navy Cooperative Program for Civilian work assignments is available to all majors with the completion of the Freshman Year (a minimum of 36 weeks is required on the job, but may be broken into two to four periods, with the student returning to school every other quarter or every six months); (3) Summer Internships with AEC, BLS, Internal Revenue Service, and other Government Agencies are available through application and interview; (4) Internships in Accounting are available with Union Bag; and (5) the College Work-Study Program provides opportunities with non-profit agencies in the city and on campus.

Business Administration

JUNIOR COLLEGE CURRICULUM:

Requirements: 92 hours exclusive of physical education

Area I - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107-110	10 hours
Choose one 10 hour sequence from the following: ..	10 hours
Biology 123-124	
Chemistry 101-102	
Physics 201-202	
Physical Science 203-204	

Area III - Social Science - 21 hours required

Social Science 114	1 hour
Social Science 101 or 102	5 hours
Political Science 200	5 hours
History 200	5 hours
Social Science 201	5 hours

Area IV - Courses appropriate to the Major - 31 hours required	
Accounting 201-202	10 hours
Economics 201-202	10 hours
Business Administration 105-201-225	11 hours
Physical Education.....	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

Business Administration 317-323-340-360	20 hours
Business Administration 467-409-410-465	20 hours
Accounting 203	5 hours
Economics 302-331-332-333	15 hours
Business Administration 300 or Mathematics 250 ...	5 hours
Humanities 233-234	9 hours
Restricted Electives	23 hours

Business Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 92 Hours exclusive of physical education

Area I - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Science - 20 hours required

Mathematics 107-110	10 hours
Biology 123-124	10 hours

Area III - Social Sciences - 21 hours required

Social Science 114	1 hour
Social Science 101 or 102	5 hours
Political Science 200	5 hours
History 200	5 hours
Social Science 201	5 hours

Area IV - Courses Appropriate to the Major - 30 hours required

Economics 201	5 hours
Education 216	5 hours

Humanities 233	5 hours
Business Administration 105-225	8 hours

Choose courses totaling 7 hours selected
from the following: 7 hours
Office Administration 201-202-203
BUSINESS Administration 201
Economics 202

PHYSICAL EDUCATION 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

MAJOR FIELD:

BED 350 - Methods of Teaching Business Subjects .	5 hours
Business Administration 317-340-360	15 hours
Economics 331	3 hours
Accounting 201-202	10 hours
Restricted electives (Teaching Option)	27 hours

PROFESSIONAL SEQUENCE:

Education 303-304-317-429-430	37 hours
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Accounting

JUNIOR COLLEGE CURRICULUM: (See Business Administration)

Requirements: 92 Hours exclusive of Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

Accounting 203-301-302-303-325	25 hours
Accounting 405-440-450	15 hours
Economics 331-332-333	10 hours
Business Administration 317-340-360	15 hours
Business Administration 407	5 hours
Restricted electives	26 hours

Economics

JUNIOR COLLEGE CURRICULUM: (See Business Administration)

Requirements: 92 hours exclusive of Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

Business Administration 317-340-360	15 hours
Business Administration 407	5 hours
Economics 305-306-323-331-332-333	25 hours
Economics 401	5 hours
Accounting 203	5 hours
Electives (Economics)	15 hours
Other Electives (Restricted)	27 hours

Finance

JUNIOR COLLEGE CURRICULUM: (See Business Administration)

Requirements: 92 Hours exclusive of Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

Business Administration 317-323-340-360	20 hours
Business Administration 409-410-461-465	20 hours
Accounting 203	5 hours
Economics 331-332-333	10 hours
Economics 431	5 hours
Electives in Finance	15 hours
Electives in Accounting	5 hours
Other Electives (Restricted)	17 hours

Management-Marketing

JUNIOR COLLEGE CURRICULUM: (See Business Administration)

Requirements: 92 Hours exclusive of Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

Business Administration 317-323-340-360	20 hours
Economics 331-332-333	10 hours
Accounting 203	5 hours
Business Administration 407-409-410-411-460-465 ...	30 hours
Electives (Restricted)	32 hours

Office Administration

JUNIOR COLLEGE CURRICULUM: (See Business Administration)

Requirements: 92 Hours exclusive of Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 97 hours

Business Administration 300-317-323-325	20 hours
Office Administration 301-302-311-312-313	16 hours
Office Administration 412-413	6 hours
or	
Office Administration 412	5 hours
Office Administration 425-426	10 hours
Economics 331-332-333	10 hours
Electives	20 hours

Minor Programs

(30 Hours: Elect six courses or 30 hours)

Economics	Accounting	Business Admin.	Office Adm.
ECO 201 - 5	ACC 201 - 5	ECO 201 - 5	OAD 201 - 2
ECO 202 - 5	ACC 202 - 5	ECO 202 - 5	OAD 202 - 2
ECO 302 - 5	ACC 203 - 5	BAD 317 - 5	OAD 203 - 2
ECO 323 - 5	ACC 301 - 5	BAD 340 - 5	OAD 301 - 3
ECO 331 - 3	ACC 302 - 5	BAD 323 - 5	OAD 302 - 3
ECO 332 - 3	ACC 325 - 5	BAD 360 - 5	OAD 303 - 3
ECO 401 - 5	ACC 405 - 5	BAD 300 - 5	OAD 301 - 3
BAD 317 - 5	ACC 440 - 5	ECO 331 - 3	OAD 401 - 3
		ECO 332 - 3	BAD 300 - 5
			OAD 302 - 4
			OAD 425 - 5

Certificate Program

In addition to the degree programs, the Division of Business Administration offers a terminal secretarial science course for students who do not find it convenient to remain in college for four years. Through intensive study and concentrated effort, such students are enabled to prepare for such positions as typists, stenographers, bookkeepers and file clerks.

Students interested in the two-year program should carefully plan their schedules with the chairman of the Division of Business Administration at the beginning of the first year. All terminal students are reminded that, in addition to courses prescribed below, they must satisfy the history and constitution requirements.

Upon satisfactory completion of the program, the student is awarded a certificate of proficiency in secretarial science.

Two-Year Secretarial Science Curriculum

FIRST YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
MATH 107-110	College Algebra & Math for Business	5	5	
BUS ADM 105	Introduction for Business			5
ED 100	Freshman Lectures (R)			
HUM 107-108-109	English Communicative Skills	5	5	5
OAD 201-202-203	Elementary Typewriting	2	2	2
OAD 311-312-313	Elementary Shorthand	3	3	3
		15	15	15

SECOND YEAR

ACCT 201-202-203	Principles of Accounting	5	5	5
BUS ADM 225	Business Communications			3
BUS ADM 300	Business Machines			5
BUS ADM 317	Business Law	5		
ECO 201	Principles of Economics		5	
POL SC 200	Advanced Typewriting	4		
OAD 412-413	Advanced Shorthand and Transcription	3	3	
OAD 301	Administrative Office Practice			3
BAD 401 or BAD 201	Intro. to Data Processing		3	
		17	16	16

DESCRIPTION OF COURSES

ACCOUNTING

201. PRINCIPLES OF ACCOUNTING. An introductory course in college accounting which is designed to give basic knowledge of accounting principles and methodology. Detailed study of the technique and formation of balance sheets, profit and loss statements, ledger accounts, and journals. Prerequisite: a grade of C or better in both Math 107 and 103 or 110. Five class hours a week. Fall quarter. Credit, five quarter hours.

202-203. PRINCIPLES OF ACCOUNTING. An introduction to the accounting principles of partnership, corporations, departmental accounting, branch accounting, accounting controls and taxation. Emphasis on preparation, consolidation, analysis, and interpretation of financial statements and other reports commonly used in modern business establishments. Five class hours a week. Winter and spring quarters. Credit, five quarter hours each quarter.

301. INTERMEDIATE ACCOUNTING. Theory and practice of accounts are explained by the problem method. The problems are designed to test the student's ability to analyze and interpret a statement of financial facts. Attention is given to the general literature in the field of accounting. Prerequisites: Accounting 202-203. Five class hours a week. Fall quarter. Credit, five quarter hours.

302. INTERMEDIATE ACCOUNTING. Introduction to accounting for investments, funds and reserves. Emphasis on problems of accounting as related to management of business. Prerequisite: Accounting 301. Five class hours a week. Winter quarter. Credit, five quarter hours.

303. ADVANCED ACCOUNTING. An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. Prerequisite: Accounting 302. Five class hours a week. Spring quarter. Credit, five quarter hours.

325. FEDERAL INCOME TAX PROCEDURE. An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns; administration. Prerequisites: Accounting, 202-203. Five class hours a week. Credit, five quarter hours.

405. COST ACCOUNTING. A study of basic cost principles, control of manufacturing cost elements, job-order cost systems, standard

cost and budget, and managerial uses of costs. The course demonstrates that cost accounting for distribution and for management of non-processing business units, and non-profit enterprises is as essential a part of cost accounting as manufacturing costs. Prerequisites: Accounting 202-203. One class hour and four two-hour laboratory periods a week. Winter quarter. Credit, five quarter hours.

430. ACCOUNTING FOR NOT-FOR-PROFIT INSTITUTIONS. Basic concepts and techniques of fund accounting for governmental, educational, religious, and charitable organizations. The course will also cover budgeting and management accounting problems of these institutions. Prerequisite: Principles of Accounting competency. Credit, five quarter hours.

440. BUSINESS INFORMATION SYSTEMS. Basic computer concepts applied to systems and methods design, data flow analysis, and the development of an understanding of a need for control procedures in a business information system. Prerequisites: Accounting 302 or consent of instructor. Five class hours a week. Credit, five quarter hours.

450. AUDITING. A study of the balance sheet, audit, including methods of verifying assets, liabilities, capital and income, and expenses. Prerequisite: Accounting 303 or consent of Instructor. Five class hours a week. Spring quarter. Credit, five quarter hours.

460. CPA REVIEW. An intensive study of the approach to and techniques of solving problems of the type presented on CPA examinations. Problem areas and course material selected from recent uniform CPA examinations. (By permission of the Department of Accounting.) Credit, five quarter hours.

BUSINESS ADMINISTRATION

105. INTRODUCTION TO BUSINESS. A survey of the fundamental facts, ideas, and conception of modern business enterprises. Three class hours a week. Spring quarter. Credit, three quarter hours.

201. PRINCIPLES OF DATA PROCESSING. A concepts course on modern methods of processing data as related to business; includes the use of computers and unit record systems as facilitating units for the accurate recording and reporting of data. Three class hours a week. Credit, three quarter hours.

225. BUSINESS COMMUNICATIONS. The application of basic principles of English grammar, basic report writing, and research

techniques to presentations and written communications as demanded in business. The role of written communication in relation to new media enters into the consideration given to communication theory. Prerequisite: HMN 107-108-109. Three class hours a week. Spring and Summer quarters. Credit, three quarter hours.

300. BUSINESS MACHINES. Desired to familiarize the student with different types of machines used in various offices, and to develop a reasonable degree of skill in the operation of a few of these office machines. One class hour and four laboratory hours a week. Credit, five quarter hours.

304. SALESMANSHIP AND SALES MANAGEMENT. A study of personal selling; types of customers; problems of administration; and the selection, training, compensation and management of sales forces. Prerequisites: BAD 325 Marketing. Five class hours a week. Credit, five quarter hours.

306. RETAILING. Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. Prerequisites: BAD 325 and ACC 201. Five class hours a week. Credit, five quarter hours.

307. PRINCIPLES OF INSURANCE. The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc. Five class hours a week. Credit, five quarter hours.

318. BUSINESS LAW. Contracts: their formation, performance rights, and remedies, agencies, sales and their execution; forms and legal effect of negotiable instruments; rights and liabilities of parties to contract. Five class hours a week. Credit, five quarter hours each.

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions. Money and its attendant economic problems; credit; the banking process and the banking system; foreign and domestic exchange; the business cycle; history of banking. Five class hours a week. Credit, five quarter hours.

340. PRINCIPLES OF MARKETING. (Formerly 325). The distribution of goods and services from producer to consumers; market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of the commodity, brands, sales methods and management; advertising plans and media. Prerequisite: ECO 201. Five class hours a week. Winter quarter. Credit, five quarter hours.

360. BUSINESS ORGANIZATION AND MANAGEMENT. (Formerly 415). A comprehensive study of principles of business organization and management. Emphasis is placed upon reports by students in which they collect data and make analyses necessary for organizing a business of their own choosing. Five class hours a week. Fall quarter. Credit, five quarter hours.

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. (Same as Family Life 400). A course in personal finance. Five class hours a week. Credit, five quarter hours.

403. ADVERTISING. Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of an organization; the sales process and psychological objectives of advertising, copywriting, and layout design; types of advertising media; criteria for selection of specific media. Prerequisite: BAD 325. Five class hours a week. Credit, five quarter hours.

407. BUSINESS FINANCE. Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term debt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of inter-corporate financing. Prerequisite: ECO 331. Five class hours a week. Credit, five quarter hours.

409. ADMINISTRATIVE PRACTICE AND INTERNSHIP. One hundred hours of practical work experience are required in offices of Savannah State College and nearby business concerns. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. By special arrangement, laboratory work may be taken during the summer before the senior year. Off-campus experience is permitted if it is arranged in advance through the Chairman of the Division. Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.

410. ADMINISTRATIVE PRACTICE AND INTERNSHIP. Practical work and seminar requirements are the same as in 409 Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration. Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.

412. PERSONNEL MANAGEMENT. The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application form; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques, grievance procedures; morale and its significance to production. Five class hours a week. Credit, five quarter hours.

465. BUSINESS POLICY. The integration of knowledge of the various functional fields of business, with emphasis on decision making. Case study approach. Five credit hours.

499. INDEPENDENT STUDY AND RESEARCH IN BUSINESS ADMINISTRATION. This course is designed for majors in the Division of Business Administration with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. Fall, Winter, Spring (Upon request). Credit, three to five quarter hours.

BUSINESS EDUCATION

350. MATERIALS AND METHODS OF TEACHING BUSINESS SUBJECTS. An analysis of specialized methods used in teaching business subjects on the secondary level, from which the student evolves personal philosophy to determine teaching procedures. Includes basic principles and curriculum structure of general and vocational business education. Prerequisites: OAD 211-212-213 and 311-312. Five class hours a week. Credit, five quarter hours.

450. VOCATIONAL DEVELOPMENT IN THE TEACHING OF DATA PROCESSING. Systems, program languages, computer operation, and techniques of teaching Data Processing. Math 306-307 (Computer Programming). Five class hours a week. Credit, five quarter hours.

ECONOMICS

200. INTRODUCTION TO ECONOMIC PRINCIPLES. A one quarter introduction to economic methods and problems concentrated on the development to the intellectual attitudes considered vital to the individual in his role as a responsible and thinking citizen. The course is not open to business students, nor may it be taken for credit by

anyone who has ever earned credit in any previous economics principles course. Five credit hours. Fall, Winter, Spring.

201. PRINCIPLES OF ECONOMICS I. Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade. Five class hours a week. Fall and Winter. Credit, five quarter hours.

202. PRINCIPLES OF ECONOMICS II. Basic economics concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems. Five class hours a week. Winter and Spring. Credit, five quarter hours.

302. CURRENT ECONOMIC PROBLEMS. This course examines in depth the important problems and issues which are constantly arising and affect the smoothness and direction of the American economic system. These include Urban Economic Problems: Poverty, inflation, manpower utilization and employment, economic development of the "ghetto" "black capitalism," urban transportation problems, automation, the rate of economic growth, the national budget, consumer credit, income maintenance, and investment trends. Prerequisite: Economics 201. Five class hours a week. Credit, five quarter hours.

304. HISTORY OF ECONOMIC THOUGHT. Traces the development of economic doctrines. Contributions of individual writers and schools of thought are examined. Examined are the views of mercantilists, classical economists, neoclassical economists, socialists, and keynesians on such topics as value, distribution, money, and national economic policy. Economic doctrines are related to social issues of a period. Prerequisite: Economics 201. Five class hours a week. Credit, five quarter hours.

305. INTERMEDIATE MICRO-ECONOMIC THEORY. Determination of price in terms of the equilibrium of the business enterprise and consumer choices in markets with varying degrees of competition; determination of wages, rent, interest, and profits. Prerequisites: Economics 201-202. Five class hours a week. Credit, five quarter hours.

306. INTERMEDIATE MACRO-ECONOMIC THEORY. The modern theory of the determination of the level and rate of growth of income, employment, output, and the price level. Alternate fiscal and monetary policies to facilitate full employment and economic growth

are discussed. Prerequisites: Economics 201-202. Five class hours a week. Credit, five quarter hours.

307. ECONOMIC HISTORY OF THE UNITED STATES. The development of agriculture, industry, commerce, transportation from colonial times to the present; problems raised by economic evolution in the United States. Five class hours a week. Credit, five quarter hours.

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions; credit; the banking process and the banking system; foreign and domestic exchange, the business cycle; history of banking. Prerequisite: Economics 201. **FIVE CLASS HOURS A WEEK.** Credit, five quarter hours.

331-332-333. BUSINESS AND ECONOMIC STATISTICS I, II, III. (Formerly Economics 450.) Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling validity and reliability; time series analysis. Five class hours a week. Credit, three, three and four quarter hours.

345. ECONOMIC DEVELOPMENT. An introduction to the economic and social problems confronting developing nations in Africa, Asia, and Latin America. Variables which affect the growth processes are isolated and analyzed. Considerable attention is focused upon the interaction of economic, political, administrative, and social phenomena and their impact on overall development within the nations studied. Limited use of growth models is employed as an alternative method of analysis. Five class hours a week. Credit, five quarter hours.

401. LABOR PROBLEMS. Problems confronting labor and capital; legislation and administrative regulations affecting employer and employees. Prerequisite: Economics 201 or consent of instructor. Five class hours a week. Credit, five quarter hours.

402. LABOR AND SOCIAL LEGISLATION. (Formerly Recent Labor Legislation.) A study of legislation designed to provide social and economic protection for men, women, and children. Prerequisites: Economics 202, 401. Five class hours a week. Credit, five quarter hours.

403. PUBLIC FINANCE. A study of the effects of taxation upon the economic system; public borrowing and public spending with reference to the present financial system of the United States.

Prerequisite: Economics 201. Five class hours a week. Credit, five quarter hours.

404. URBAN ECONOMICS. An analysis of urban growth centers and their concomitant problems utilizing the cost-benefit technique of evaluation. Location theory is used to delineate trends in urban growth patterns and activities. Specific urban problems arising from such growth trends as adequate revenue and tax base, human resource utilization, housing and land use, and urban poverty are discussed. Emphasis is placed upon solving such problems in terms of economic efficiency and equity. Five class hours a week. Credit, five quarter hours.

405. INTERNATIONAL ECONOMICS. An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration. Prerequisites: Economics 201-202-305. Five class hours a week. Credit, five quarter hours.

406. COMPARATIVE ECONOMIC SYSTEMS. A comparative study of current economic systems. Prerequisite: Twenty hours of economics or consent of the instructor. Five class hours a week. Credit, five quarter hours.

OFFICE ADMINISTRATION

201. ELEMENTARY TYPEWRITING. Introduction to the keyboard and touch typewriting. Emphasizes the proper technique of machine operation and control. Introduces speed and accuracy; attractive arrangement of copy; and simple tabulation. Minimum standard for passing: 30 words per minutes on time writings. Students with previous training in this area may waive the elementary course by passing a qualifying examination. Five laboratory hours per week. Fall, Winter, and Spring. Credit, two quarter hours each quarter.

202-203. INTERMEDIATE AND ADVANCED TYPEWRITING. Skill development in typewriting. Business letter writing, forms development, intensive tabulation, and formal reports. Minimum passing speeds: 40 words per minute for 202 and 50 words per minute for 203. Three class hours a week. Credit two quarter hours each.

300. OFFICE MACHINES. (Same as BAD 300). Acquaintanceship, proficiency, and expert levels of development on five basic classes of machines: Adding and Calculating; copy preparation; duplicating; keypunching; and transcribing. Six laboratory hours per week. Credit, five quarter hours.

301. ADMINISTRATIVE OFFICE PRACTICE. A course dealing with office practice, subject-matter, and procedures commonly used in business offices; laboratory in stenographic methods and office machines. Prerequisites: shorthand and typing - one year of each. Three class hours a week. Credit, three quarter hours.

302. SPEED DEVELOPMENT IN TYPEWRITING. Continued emphasis on mastery of the typewriter. Writing business letters, copying from rough drafts, tabulating complex material, and stenciling. Minimum standard for passing at the end of the course, 45 and 50 words per minute, respectively, on continuous copy for ten minutes with a maximum of five errors. Five class hours a week. Fall and Winter. Credit, four quarter hours.

311-312. ELEMENTARY AND INTERMEDIATE SHORTHAND. (Formerly 211-212). Beginning courses in Gregg Shorthand, giving a fundamental background in reading and writing shorthand notes. Minimum standard for passing at the end of each course, 40 and 60 words per minute, respectively, for three minutes with 95 per cent accuracy. Five class hours a week. Fall and Winter quarter. Credit, three quarter hours each quarter.

313. ADVANCED SHORTHAND.(Formerly 213.) Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing at the end of the course, 80 words per minute for three minutes with 95 per cent accuracy. Five class hours a week. Spring. Credit, three quarter hours.

401. PRINCIPLES OF DATA PROCESSING. An introduction to modern methods of processing data; includes principles of unit systems and an introduction to computer science. (Same as BAD 201.) Three class hours a week. Credit, three quarter hours.

402. IBM KEYPUNCH. Intensive training in the operation of IBM Key punch machines Includes instruction on program control, punching computer programs, the development of speed and accuracy in punching and verifying. Six laboratory hours a week. Credit, two quarter hours.

412. ADVANCED DICTATION AND TRANSCRIPTION. (Formerly 312.) Development of speed and accuracy in transcribing shorthand notes. Gregg tests and standards used. Minimum passing standard for passing at the end of course, 100 words per minute for three minutes with 95 per cent accuracy. Prerequisite: One year (or equivalent) of Gregg Shorthand. Five class hours a week. Fall quarter. Credit, three quarter hours.

DIVISION OF EDUCATION

THELMA M. HARMOND, Chairman

John C. Adams
Stephen K. Agyekum
Clifford Burgess
Ruby C. Black*
Virginia R. Blalock*
John H. Cochran, Jr.
Frankie G. Ellis
Ida J. Gadsden

Dorothy C. James
Cornelia V. Lawson
Aurelia D. Robinson
Herman W. Sartor
Jacqualyn W. Stephens
Maurice S. Stokes
Joseph W. Sumner

The Division of Education serves three major purposes: (1) in cooperation with the College-wide Teacher Education Committee and the Georgia Council on Teacher Education and Certification, it spearheads the process of continuous planning, experimentation, and evaluation of the total teacher education program; (2) it assumes leadership responsibility for the selection, guidance, and professional preparation of students who will teach in elementary and secondary schools; (3) it provides an adequate foundation for advanced study for persons who plan to continue their educational preparation beyond the baccalaureate degree.

COLLEGE-WIDE PROVISION FOR TEACHER EDUCATION

In the Division of Education there are three departments: the Department of Elementary Education, the Department of Health, Physical Education and Recreation, and the Department of Secondary Education. The preparation of teachers is, however, a Collegewide commitment. Because every division and department at the College is involved in teacher education in some subject matter field, this function engages the constant interest and efforts, staff resources, and facilities of the entire institution.

Teacher Education Programs

Degree Programs:

Elementary Education

*On Study Leave

Secondary Education

- Business Education
- English Education
- Industrial Arts Education
- Mathematics
- Modern Languages
 - French
 - Spanish
- Science Education
 - Biology
 - Earth Science
 - Chemistry
 - Physics
- Social Science
 - History
- Trade and Industrial Education

Grades 1 - 12

- Art
- Health, Physical Education and Recreation
- Music

Certification Programs: (See preceding section)

- Early Childhood Education
- Teacher-Librarian
- Driver Education

The quantitative requirements for graduation in this division are 196 quarter hours, including prescribed health and physical education and orientation courses.

REQUIRED TEACHER EDUCATION SEQUENCE

The following courses comprise the minimum core of professional preparation required of all students who plan to teach in the elementary or secondary school:

ED. 216	.....	Introduction to Teaching
ED. 303 or	.....	Health for Teachers
ED. 305	.....	Total School Health
ED. 304	.....	Media for Teachers
*ED. 317	.....	Human Growth and Learning
*ED. 429	.....	Curriculum and Teaching
*ED. 430	.....	Student Teaching

*Must be taken in residence.

These courses are to be completed satisfactorily in the order listed. Failure to do so results in loss of credit.

When appropriate, students are grouped in ED. 317 and ED. 429 according to major interest and teaching levels.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

During the sophomore year, students who plan to complete a curriculum in teacher education are required to submit to the Division of Education an application for admission to the teacher education program. Applications will be screened, and applicants will be notified individually of the action taken on their applications.

The eligibility of applicants for admission to the program will be determined in accordance with the following criteria:

1. Completion of at least sixty (60) quarter hours of general education including ED 216, or enrollment in ED 216.
2. Completion of HUM 107, 108, 109.
3. Minimum grade-point average of 2.25.
4. Possession of characteristics such as physical and intellectual vigor, honesty, enthusiasm, open-mindedness, resourcefulness, and maturity.

Students must seek admission to teacher education at least the quarter preceeding their expected enrollment in Ed. 317 - Human Growth and Learning.

RETENTION IN THE TEACHER EDUCATION PROGRAM

After admission to the teacher education program, students will be expected to meet the following requirements:

1. Completion of the teacher education sequence in the prescribed order.
2. Maintenance of a general cumulative average of 2.25 or better.
3. Maintenance of at least a grade of C in each course in the major concentration and in the teacher education sequence.

Students failing to meet the foregoing requirements will be placed on probation and will be disallowed enrollment in all courses in the teacher education sequence during the period of probation.

Students who fail promptly to remove deficiencies in these requirements will be asked to withdraw from the teacher education program.

ADMISSION TO STUDENT TEACHING

Formal application must be made for admission to student teaching. Appropriate forms may be obtained from the office of the Coordinator of Laboratory Experiences

For admission to student teaching, the student must be in good standing in the Teacher Education program. He must obtain the approval of (1) the chairman or designated adviser in his field of concentration and (2) the Chairman of Teacher Education or his designee (Head of Secondary or Elementary Education).

Specifically the student:

1. Must be in good standing in the teacher education program.
2. Must have completed the teacher education sequence in the prescribed order with at least the grade of C in each course.
3. Must have completed his major content sequence with grades of C or better.
4. Must have passed the Language Skills Examination of the University System of Georgia.

Elementary Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours exclusive of Physical Education

Area I - Humanities - 20 hours

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours

Mathematics 107	5 hours
Biology 123-124	10 hours
Natural Science:	
Physical Science 203	5 hours

Area III - Social Sciences - 20 hours

Social Science 101-102	10 hours
Political Science 200 and History 200	10 hours

Area IV- Courses appropriate to the major - 30 hours

Social Science 114	1 hour
Social Science 111	5 hours
Social Science 201	5 hours
Humanities 233-234	9 hours

Sequences selected from the following: 10 hours
 Humanities 141-142
 or
 Humanities 151-152
 or
 Humanities 161-162

Physical Education..... 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Field - 39 hours

Physical Education 233	3 hours
Music Education 300-301	6 hours
Education 347	5 hours
Art 401	5 hours
Education 341	15 hours
Education 342	5 hours

Teacher Education Sequence - 41 hours

Education 216	5 hours
Education 305	5 hours
Education 317	8 hours
Education 429	8 hours
Education 430	15 hours

Electives - 20 hours

Possible concentration in Early Childhood
 Education or Library Services or other
 combination.*

*Student must consult with adviser and/or department head.

DESCRIPTION OF COURSES

EDUCATION

216. INTRODUCTION TO TEACHING. Historical development of education; opportunities in social significance and ethics of the profession. The student surveys the many facets of the teacher's work and receives assistance in determining his potential for teaching. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

303 or 305. HEALTH FOR TEACHERS OR TOTAL SCHOOL HEALTH. A conceptual approach to health education which enables prospective elementary and secondary teachers to develop skills in identifying and coping with relevant school and community health programs. Community resources for enriching the curriculum are utilized. Fall, Winter and Spring. 303, three credit hours or 305, five credit hours (Student's option)

304. Exploration and use of all types of educational technology with emphasis on media which facilitate learning and enhance the school curriculum. Fall, Winter and Spring. Credit, three quarter hours.

317. HUMAN GROWTH AND LEARNING. Study of the total growth and development of the individual. Biological, social, and psychological aspects of learning measurement; personality adjustment and mental hygiene. Principles, conditions, skills conducive to effective learning in the several subject fields. Work with children in public and private schools and in community agencies. Prerequisites: Ed. 216 and admission to teacher education. Four class hours and two four-hour periods devoted to laboratory experiences, including observation-participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.

323. CHILDREN'S LITERATURE. A study of children's books and selections from books. Designed to assist future teachers in the selection of the best that has been written in the realm of children's literature for each period of the child's life. Five class hours a week. Summer. Credit, five quarter hours.

341. SEMINAR IN THE ELEMENTARY SCHOOL CURRICULUM. Designed to meet student's needs in the teaching of the language arts, including literature, social studies, mathematics, and science; underlying philosophy and interrelationships of the areas;

laboratory activities, including observation of and work with elementary pupils; selection and use of literature for children. Registration in additional courses only upon approval of adviser. Prerequisites: Ed. 216 and 317. Twenty class hours a week. Fall, Winter, and Spring. Credit, fifteen quarter hours.

342. **THE READING PROCESS.** Designed to extend understandings about reading as a developmental, functional, and recreational process. Emphasis on experimental approaches, trends, issues, media, research. Laboratory. Credit, five quarter hours. Fall, Winter, and Spring.

347. **EDUCATIONAL MEDIA.** Workshop experiences in the utilization, evaluation, and preparation of various kinds of media. The place of audio-visual aids in the learning process. Five class hours a week and laboratory. Credit, five quarter hours. Fall, Winter and Spring.

348. **SEMINAR IN THE TEACHING OF FOREIGN LANGUAGES.** Discussion of various methods of teaching foreign languages with special emphasis on the audio-lingual method, discussion of problems involved in the teaching of foreign languages, and teaching demonstrations by the students. Prerequisite: junior and senior standing. Two class hours a week. Credit, none. Fall, Winter and Spring.

429. **CURRICULUM AND TEACHING.** Through readings, class discussions, and in selected elementary and secondary schools, students will consider: (1) the function and place of the school in our society; (2) curricular concepts and their psychological and philosophical foundations; (3) types of curricular organizations; (4) methods of organizing and of presenting learning materials; (5) school observation-participation, demonstration in subject fields, micro-teaching. Prerequisites: Education 216 and 317. Four class hours and two four-hour periods weekly in laboratory participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.

430. **STUDENT TEACHING.** A cooperative venture between the College and public school systems to provide supervised classroom experience for elementary and secondary student teachers. Pre-field and post-field seminars for orientation and evaluation while the remainder of the quarter is devoted to observation-participation, teaching and total professional involvement proportionate with student readiness. Major field and total group seminars held at planned intervals during quarter for student teachers to explore problem areas and to receive assistance. Prerequisites: Education 216, 317, 429, 305, completion of

English requirements and major field subjects. Fall, Winter, and Spring. Credit, fifteen quarter hours.

ELECTIVES

411. **DIAGNOSING AND CORRECTING LEARNING PROBLEMS.** Emphasis on means (1) of determining performance levels and needs of pupils in reading and mathematics skills and (2) of providing corrective assistance for identified problems. Laboratory. Credit, five quarter hours. Electives. Winter quarter.

315. **IMPROVING SPEECH.** A survey of human speech development, deviation, underlying causes, and resultant handicaps. Studying standards for efficiency in oral communication with opportunities for self-help in upgrading personal performances. An opportunity for future teachers to examine methods for the improvement of language and speech in the classroom. Open to all students. Especially for teaching majors. Credit, five quarter hours. Spring quarter.

IN-SERVICE SEQUENCE

313. Study of total growth and development of the individual; learning principles; measurement. Enrollment limited to in-service teachers. Summer. Credit, five quarter hours.

428. **CURRICULUM.** Historical evaluation of American school curriculum. Principles of curriculum development, evaluation of curriculum practices in elementary and secondary schools. Enrollment limited to post-baccalaureate students and in-service teachers. Summer. Credit, five quarter hours.

438. **THE TEACHING PROCESS IN ELEMENTARY SCHOOL.** Principles underlying teaching practices. Students grouped according to major interest for exploring methods of organizing and presenting learning materials. Laboratory including demonstration and micro-teaching. Enrollment limited to post-baccalaureate students and in-service teachers. Summer. Credit, five quarter hours.

439. **THE TEACHING PROCESS IN SECONDARY SCHOOL.** Principles underlying teaching practices. Students grouped according to major interest and teaching levels for exploring methods of organizing and presenting learning materials. Laboratory including demonstration and micro-teaching. Enrollment limited to post-baccalaureate students and in-service teachers. Summer. Credit, five quarter hours.

461. WORKSHOP FOR ELEMENTARY TEACHERS. Laboratory experience simulating student teaching at the elementary level. Open only to in-service teachers holding, under usual circumstances, the baccalaureate degree. Work with children. Summer. Credit, ten quarter hours.

462. WORKSHOP FOR SECONDARY TEACHERS. Laboratory experience simulating student teaching at the secondary level. Open only to in-service teachers holding, under usual circumstances, the baccalaureate degree. Work with children. Summer. Credit, ten quarter hours.

LIBRARY EDUCATION

301. SCHOOL LIBRARY ADMINISTRATION AND ORGANIZATION. Methods of developing a strong functioning library as an integral part of the school; routines involved in administration, acquisition, circulation and care of materials; planning the library or media center, public relations and personnel. Five class hours a week. Credit, five quarter hours. Fall quarter.

302. CATALOGING AND CLASSIFICATION. Designed to provide an introduction to classification and cataloging for modern school libraries; includes the fundamentals of cataloging, classification according to the Dewey Decimal System, the use of subject headings and the principles underlying the selection of books and non-print materials. Five class hours a week. Credit, five quarter hours. Winter quarter.

401. SCHOOL LIBRARY MATERIALS. The selection and use of books and non-print materials for school libraries. The study of basic aids in selection, book reviewing and annotation, with special attention to the use of books and materials in correlation with the curriculum. Five class hours a week. Credit, five quarter hours.

402. BASIC REFERENCE SOURCES. Basic reference tools for the school library and problems in their use of such tools as encyclopedias, dictionaries, atlases, bibliographies, representative handbooks, and non-print media. Five class hours a week. Credit, five quarter hours.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

KENNETH F. TAYLOR, *Acting Head*

Geraldine H. Abernathy

Michael W. Backus

Frank Ellis, Jr.

Albert E. Frazier

Raymond W. Hopson

Altomease Magwood

John H. Myles

Hattie B. Rivers

Richard K. Washington

Jimmie Westley

The essential aim of the Department of Health, Physical Education, and Recreation is to provide professional training for pre-service and in-service teachers of health, physical education, and recreation in the elementary and secondary schools. The department encourages only potentially qualified students to undertake professional training in this field. It seeks also to provide instruction for all students in the basic principles of health and recreational activity needed for wholesome living.

In pursuance of the foregoing aims this department provides a four-fold program of instruction. For students who plan to become professional workers in the field of health, physical education, and recreation—either in schools or in other agencies—the department offers a sequence of specialized training leading to the degree of Bachelor of Science in Education, with a concentration in health, physical education, and recreation. In addition, it provides basic training in supervision of one or more phases of a comprehensive health, physical education, and recreation program in the schools of Georgia for all students enrolled in teacher education curricula at Savannah State College. This phase of the work is provided either in selected specialized courses or in a minor sequence.

The department provides instruction in the fundamental concepts and activities of health, physical education, and recreation as an essential phase of general education for all students enrolled at the college. It serves the college community through instruction and leadership in the intramural program. The intramural program is, in effect, a laboratory in which students enjoy practicing the skills learned in general service courses and compete with their peers.

PHYSICAL EDUCATION REQUIREMENTS FOR ALL FRESHMEN & SOPHOMORES

During the freshman and sophomore years all students are required to participate in health and physical education activities. The satisfac-

tory completion of this work is a prerequisite for graduation. Within the six quarters of work, one quarter is devoted to swimming.

JUNIOR COLLEGE CURRICULUM:

Requirements - 90 quarter hours exclusive of Physical Education

Area I - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Science - 20 hours required

Mathematics 107	5 hours
Biology 123-124	10 hours
Chemistry 101	5 hours

Area III - Social Science - 20 hours required

Social Science 101-102	10 hours
Political Science 200	5 hours
History 200	5 hours

Area IV - Courses Appropriate To The Major - 30 hours required

Education 216	5 hours
Physical Education 235	5 hours
Health Education 200	5 hours
Social Science 201	5 hours
Social Science 111	5 hours
Humanities 233	5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements - 82 quarter hours exclusive of Physical Education

Major Requirements 45 hours

Physical Education 233, 301, 304, 305, 310, 316, 317,
403, 410, 415, 430

Teacher Education Sequence 37 hours
Education 303, 304, 317, 429, 430

Other General Education Requirements - 5 hours

Social Science 114	1 hour
Humanities 234	4 hours

Electives 12 hours

DESCRIPTION OF COURSES

HEALTH EDUCATION

235. **PERSONAL AND COMMUNITY HYGIENE.** Scientific health facts pertaining to the individual and the community that will enable one to live successfully with himself and others. Prevention and control of communicable diseases. Hygienic factors of the home, school, and community. Five class hours a week. Credit, five quarter hours.

200. **FIRST AID AND SAFETY.** A combined course of materials and methods of first aid; the philosophy of safety education; care and prevention of injuries; integration of safety with other subjects and activities. Practice in the application of first aid methods. Five class hours a week. Credit, five quarter hours.

PHYSICAL EDUCATION AND RECREATION*

111(W). **FUNDAMENTALS OF VOLLEYBALL, TOUCH FOOTBALL, AND GAMES OF LOW ORGANIZATION; TUMBLING AND APPARATUS.** Two class hours a week. Credit, one quarter hour.

112 (Men and Women) **Winter Activities Including STUNTS, TUMBLING, GYMNASTICS, ETC.** Two class hours a week. Credit, one quarter hour.

113 (W&M). **SEASONAL ACTIVITIES.** Two class hours a week. Credit, one quarter hour.

211 (W). **TEAM ACTIVITY IN VOLLEYBALL, TOUCH FOOTBALL, SHUFFLEBOARD.** Two class hours a week. Credit, one quarter hour.

212(W). **BASKETBALL, SOCCER, RHYTHMICAL ACTIVITIES.** Two class hours a week. Credit, one quarter hour.

111 (M). **FUNDAMENTALS OF FOOTBALL, VOLLEYBALL, TUMBLING AND APPARATUS.** Two class hours a week. Credit, one quarter hour.

211 (M). **ARCHERY, VOLLEYBALL, TUMBLING.** Two class hours a week. Credit, one quarter hour.

212 (M). **BASKETBALL, SOCCER.** Two class hours a week. Credit, one quarter hour.

*All seasonal activity courses (111, 112, 113, 211, 212, and 213) are open to men and women.

213 (M) ARCHERY, TENNIS. Two class hours a week. Credit, one quarter hour.

233. ELEMENTARY MASS ACTIVITY. Explanation and grouping of simple games, stunts, self-testing activities, and rhythms that fit the needs of the elementary school child. Three class hours a week. Credit, three quarter hours.

235. INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION. Orientation to careers and the personal and professional qualifications needed by students planning to enter the field. Philosophy and principles underlying the best modern practices in education; practical suggestions and intensive study to provide a functional understanding of health, physical education, and recreation programs. Five class hours a week. Credit, five quarter hours.

301. PHYSIOLOGY OF MUSCULAR ACTIVITY. A comprehensive study of the systems of the body as they are affected by activity. Prerequisite: basic knowledge of biology and anatomy. Five class hours a week. Credit, five quarter hours.

302. SOCIAL AND SQUARE DANCING. Two class hours a week. Credit, two quarter hours.

304. APPLIED ANATOMY. Essentials of anatomy and physiology; study of structure as essential to understanding of function; importance of the muscular system and joints; the erect and moving metabolism of the body; pathological conditions in every-day life. Five class hours a week. Credit, five quarter hours.

305. CORRECTIVE PHYSICAL EDUCATION. A comprehensive view of the significance of exercise in the educative process and in treatment of abnormal or diseased conditions. Three class hours a week. Credit, three quarter hours.

310. COMPENDIUM IN PHYSICAL EDUCATION. (Majors and minors only.) Sports, games, and activities are presented to the students in an atmosphere which will allow for maximum instruction and guidance. Equipment and facilities are available so that individual instruction is available. One class hour a week. Credit, one quarter hour.

316. INTRAMURAL AND RECREATIONAL ACTIVITIES. Problems peculiar to intramurals organization, motivation, desirable activities, schedules, reports, and awards. Five class hours a week. Credit, five quarter hours.

317. COMMUNITY PLAY, RECREATION AND CAMP COUNSELING. An historical background of the present play movement; the theoretical explanation of play; the need for play in modern life; its place in education; the administration and organization of play; camp counseling. Five class hours a week. Credit, five quarter hours.

321. BEGINNER'S SWIMMING. To equip the individual with basic water safety skills and knowledge in order to make him reasonably safe while in, on, or about the water. Two class hours a week. Credit, one quarter hour.

322. ADVANCED BEGINNER'S SWIMMING. To increase the watermanship of the individual by adding to the skills learned in Beginner's Swimming; To afford the student with an opportunity to experience continued success in a reasonable period of time and thus motivate him to continue his water safety training; To prepare the student for additional water safety training by introducing him to a series of skills designed to improve his stamina and basic coordination. Two class hours a week. Credit, one quarter hour.

323. INTERMEDIATE SWIMMING. To provide the student with the opportunity to learn the elements of good swimming. Two class hours a week. Credit, one quarter hour.

403. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. Testing and measuring the student's work, the literature of the field, presentation of results in clear and usable form. Five class hours a week. Credit, five quarter hours.

410-411. COACHING AND OFFICIATING I AND II. Theory and psychology of coaching and officiating sports and games in schools and colleges. Comparison of the various methods of coaching and practical application of techniques of officiating. Three class hours a week, two quarters. Credit, three quarter hours each quarter.

415. ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. The basic principles in organizing programs; state and legal aspects; medical problems; maintenance of athletic equipment; motivating interest by publicity programs; budgeting and financing the work; equipping and managing the office. Five class hours a week. Credit, five quarter hours.

420. MECHANICAL ANALYSIS. A study of forces in muscles, bones and joints, as related to externally applied loads. Muscle testing

against externally applied forces of varying degrees of magnitude. Analysis of positions and the arrangement of bodily alignment. Five quarter hours a week. Credit, five quarter hours.

430. PROGRAMMING AND IMPLEMENTATION IN PHYSICAL EDUCATION. Selection, interpretation, arrangement, and execution of activities for maximum experiences in the modern physical education programs. Special emphasis is placed on the survey and evaluation of materials and the application of effective arrangements and procedures. Five class hours a week. Credit, five quarter hours.

440. NEW DIMENSIONS AND DYNAMICS IN HEALTH PRACTICES. The purpose of this course is to identify the facts, principles and concepts of the behavioral natural sciences that pertain to helpful living. Five class hours a week. Credit, five quarter hours.

450. LEGAL ASPECTS OF PHYSICAL EDUCATION AND ATHLETICS. Individual and group responsibility for particular activities with legal restrictions associated with such activities. Statutes versus court judgement. Legal precedents and litigations. Tenets of immunity, variations in interpretation and court actions. Five class hours a week. Credit, five quarter hours.



DIVISION OF HUMANITIES

LUETTA C. MILLEDGE, Chairperson

The humanities embrace those skills, understandings, and appreciations which make for a well-rounded life. The humanities are concerned with humane values, exalting the life of man. Thus, the impact of mind upon mind—great minds of the past upon sensitive minds of the present—constantly points the way to the good life.

Specifically, the Division of Humanities provides opportunity for study and analyses of the language, literature, art, and music of the world. The study and analyses are aimed at motivating the student to expand his aesthetic horizon, to enliven his spirit of inventiveness and individuality, and to acquire a finer appreciation and understanding of the human spirit.

This division comprises the Department of English, the Department of Fine Arts, and the Department of Modern Languages.

Department of English

LUETTA C. MILLEDGE, Head

Julia H. Bennett
Arthur L. Brentson
Oscar C. Daub
Norman Elmore, Jr.
Marceline Erickson**
J. Randolph Fisher**
Robert Holt
Elizabeth B. Johns
Elisabeth Lunz

Sister Mary Julie Maggioni
Michael Kevin Maher
Yvonne H. Mathis
Lucretia P. Morgan
George J. O'Neill
Louise L. Owens*
Robert L. Stevenson*
Alma Stone Williams
James Williams***

The ultimate aim of the Department of English is to develop in the student a quality of mind marked by constructive, imaginative inquiry and creative thinking. The Department aims to help the student develop these aspects of his personality and intelligence: (1) oral and written language proficiency, including an awareness of linguistic

*On leave

**Retired, June, 1974

***Part time in Communications

plurality; (2) critical knowledge and consequent appreciation of the literary arts in their various modes, including the written, the oral, and the cinematic; (3) affective, aesthetic, and intellectual flexibility and perceptiveness; and (4) humane spirit and values.

The student who has successfully pursued English as his major area of study should be able to distinguish between genuinely great literature and that which is less than great. He should have a critical acquaintance with a representative number of masterpieces in American, English, and world literature; he should be aware of the seminal ideas, concepts, and archetypes informing these works; and he should have some facility in applying the major critical approaches to literature. The English major is expected to demonstrate facility and taste in expression, to have a satisfactory knowledge of the history and nature of the English language, and to be cognizant of dialectal variety in American English. In addition to the proficiencies already listed, the English Education major should have knowledge of the major methods of teaching the language arts and skills, including an awareness of the most recent approaches to teaching rhetoric and composition and a knowledge of modern trends in teaching literature and language.

PLAN OF STUDY

All freshman students are required to take a placement test in English and are grouped on the basis of achievement on the test. A student whose score is sufficiently high on the objective test is eligible to take a writing proficiency test. If his writing is adjudged proficient by three readers, he is then eligible to register for Humanities 108. Other students are assigned to appropriate sections of Humanities 107 or are assigned to English courses in Special Studies.

THE ENGLISH MAJOR

A non-teaching major in English must include two period courses (301, 303, 305, or 306); one course in American literature (220 or 221); one genre course (403, 405, or 406); one course in world literature (331 or 332); one course in English literature (210 or 211), three seminars in English and one course in linguistics.

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

An English major who expects to teach English must take one period course, one course in American literature, one course in English

literature, one course in Linguistics, one genre course, one course in world literature for majors, and two seminars in English, and two electives in English, in addition to freshman English, advanced composition, and speech.

THE ENGLISH MINOR

A minor in English consists of thirty hours *beyond* Humanities 107, 108, and 109. It must include one course in American literature, one course in English literature, one genre course, and one seminar in English.

Curriculum For Majors In
English Language and Literature

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 hours exclusive of physical education

Area I - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Science - 20 hours required

Mathematics 107, 108, 110	5-10 hours
One ten-hour sequence from the following:	

Biology 123-124 or 126-127	10 hours
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-204	5-10 hours

Area III - Social Science - 21 hours required

Social Science 101-102	1 hour
Social Science 101-102	5-10 hours
Courses selected from the following:	10-15 hours

Political Science 200*	Economics 201
Social Science 111,	History 200*
Social Science 201,	

Area IV - Courses Appropriate to the Major - 30 hours required

English 204 or English 207	5 hours
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*Required by the State of Georgia

English 210 or English 211	5 hours
Courses selected from the following:	5 hours

Humanities 233, 234

Selected from the following:	15 hours
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Humanities 141-142-143 or,
Humanities 151-152-153, or
Humanities 161-162-163

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours

English Literature	15 hours
English 301 or 303 or 305	
English 401	
English 210 or 211	

American Literature	5 hours
English 220 or 221	

Continental Literature	5 hours
English 306 or 307	

Linguistics	5 hours
English 320	

Speech	5 hours
English 413	

Seminars in English	3 hours
English 450, 451, 452	

English Electives	13 hours
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General Electives	10 hours
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Minor Field	25 hours
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Philosophy or Ethics	5 hours
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English Education Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 hours exclusive of physical education

Area I - Humanities - 20 hours required

Humanities 107,108,109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Science - 20 hours required

Mathematics 107, 108, 110	5-10 hours
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One ten-hour sequence from the following:

Biology 123-124 or 126-127	10 hours
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-204	5-10 hours

Area III - Social Science - 21 hours required

Social Science 114	1 hour
Social Science 101-102	5-10 hours
Courses selected from the following:	10-15 hours
Political Science 200*	
Social Science 111,	
Social Science 201,	
Economics 201,	
History 200*	

Area IV - Courses appropriate to the Major - 30 hours required

Humanities 233	5 hours
Education 216	5 hours
English 207	5 hours
Sequence selection from the following:	15 hours
Humanities 141-142-143 or,	
Humanities 151-152-153 or,	
Humanities 161-162-163	

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 86 quarter hours

*Required by state of Georgia

English Literature	10 hours
English 210 or 211	
English 401	
American Literature	5 hours
English 220 or 221	
Linguistics	5 hours
English 320	
Speech	5 hours
English 413	
Continental Literature	5 hours
English 306 or 307	
Seminar in English	2 hours
English 450, 451, 452	
Philosophy	5 hours
Philosophy 300	
Education	37 hours
Education 307	
Education 317	
Education 429	
Education 430	
Electives	12 hours
English Electives	4 hours
General Electives	8 hours

COMPREHENSIVE EXAMINATION FOR ENGLISH MAJORS

Senior English language and literature majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

Senior English Education majors are required to take the National Teachers Examination as the comprehensive examination in their field.

COMMUNICATIONS MINOR

The Department of English offers a minor in communications. A student may select an electronic or a print media sequence. The

minimal requirement for a minor in communications is twenty-five quarter hours in either sequence.

MINOR OPTIONS IN COMMUNICATIONS

Option I: Minor In Journalism

JUNIOR YEAR

- COM 351. The Mass Media and Culture
- COM 361. Introduction to Journalistic Writing (formerly English 410)
- COM 362. Principles of Journalistic Writing (formerly Eng. 431)

SENIOR YEAR

- COM 451. Language and Persuasion
- COM 461. The Non-Fiction Feature (Eng. 432)
- COM 481. Communications Operation and Programming
- COM 491. Media Internship (Optional)

Option II: Minor In Electronic Media

JUNIOR YEAR

- COM 351. The Mass Media and Culture
- COM 352. Electronic Media
- COM 363. Electronic Journalism

SENIOR YEAR

- COM 451. Language and Persuasion
- COM 471. Speech for Radio and Television I
- COM 481. Communications Operation and Programming
- COM 491. Media Internship (Optional)

DESCRIPTION OF COURSES

HUMANITIES

107-108-109. ENGLISH COMMUNICATIVE SKILLS. (To be taken in sequence.) Designed to develop competence in: (1) reading, writing, speaking, listening, and demonstrating; (2) creative, critical thinking; precision of thought and expression through oral and written reports. A minimum passing grade of C is required in each course. Five

class hours a week. Fall, Winter, and Spring. Credit, five quarter hours each.

*131. INTRODUCTION TO MUSIC AND ART. Designed to integrate experiences in music and art. Various media are used to develop an understanding of musical contributions to daily living and to provide enriching experiences in art. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

141-142-143. ELEMENTARY FRENCH. Intended for students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple, everyday French. The courses are to be taken in sequence. Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.

151-152-153. ELEMENTARY GERMAN. For students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple everyday German. The courses are taken in sequence. Four class hours and two one-hour laboratory periods a week. Fall, Winter and Spring. Credit, Five quarter hours each quarter.

161-162-163. ELEMENTARY SPANISH. These courses are intended for students who have not studied the language previously. The work provides intensive practice in hearing, speaking, reading and writing simple, everyday Spanish. The courses are to be taken in sequence. Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.

171-172-173. ELEMENTARY RUSSIAN. For students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple everyday Russian. The courses are taken in sequence. Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.

*207-208-209. WORLD LITERATURE. (To be taken in sequence.) An interpretation and appreciation, introducing the student to some of the major writers of the world and to the principal literary genres. Required of all students. Prerequisites: Humanities 107-108-109. Three one-hour discussion periods a week. Credit, three quarter hours each.

*Freshmen and Sophomores are not permitted to enroll. Course is being phased out.

***232-233-234 INTRODUCTION TO THE HUMANITIES.** An interdisciplinary course sequence in art, literature, and music. Prerequisite: Hmn 109. Hmn. 232-233: Five one-hour discussion periods a week. Credit, five quarter hours each. Hmn. 234: four one-hour discussion periods a week. Credit, four quarter hours.

301. WORLD RELIGIONS. An introduction to the religions of the world, with attention to milieu and emphasis upon the irenic approach. No prerequisites. Five class hours a week. Credit, five quarter hours.

ENGLISH¹

200. READING AND WRITING SKILLS. Intensive study and practice in reading and writing. Designed for students who fail the University System Language Skills Examination. Passing contingent upon passing L.S.E. Five hours institutional credit.

204. ADVANCED COMPOSITION. Intensive study of the theory and practice of writing the basic composition forms; exposition, narration, description, and argumentation; interpretative writing based on the inductive study of literary models; investigational writing or research involving methods of presenting data, and other written work of a documentary nature. Prerequisites: Humanities 107,108,109. Five class hours a week. Spring. Credit, five quarter hours.

207. TECHNIQUES OF COMPOSITION. Designed for prospective teachers of English. Emphasis upon content, logic and organization in connected discourse; development of skill in various types of writing; ability to analyze pieces of writing for strengths and weaknesses, and to make valid suggestions for improvement; relating of these matters to methods of teaching. Five class hours a week. Credit, five quarter hours.

210. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from Beowulf to the Romantic Period. Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.

211. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from the Romantic Period to the Contemporary

¹Unless otherwise indicated, satisfactory completion of the Freshman Humanities Sequence (Humanities 107-108-109) is prerequisite to enrollment in any course numbered 200 or above.

Unless otherwise indicated, satisfactory completion of the Sophomore Humanities Sequence (Humanities 232-233-234) is prerequisite to enrollment in any course numbered 300 or above.

Period. Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.

220. AMERICAN LITERATURE FROM THE COLONIAL PERIOD TO 1865. A study of the main currents of thought and expression in America. Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.

221. AMERICAN LITERATURE SINCE 1865. A study of the main currents in literary thought and expression in America from 1865 to the present. Prerequisites: Humanities 107, 108, 109. Credit, five quarter hours.

301. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY. A survey of the important writers—their styles, subject-matter and philosophies. Special emphasis upon the works of Milton, Dryden, and Bacon. Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.

303. THE ENGLISH ROMANTIC MOVEMENT. The genesis of the Romantic theory and the beginning of the Romantic revolt in England; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats; in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.

305. VICTORIAN PROSE AND POETRY. An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.

306. CONTEMPORARY PROSE AND POETRY. A survey of the major trends and themes in world literature, including American, from World War I to the mid-twentieth century. Prerequisites: Eng 210 or 211, or Eng 220 or 221, and Eng 204 or 207. Credit, five quarter hours.

307. MAJOR AUTHORS SINCE 1950. A survey of major trends and works in world literature, including American, of recent times. Prerequisites: same as for Eng 306.

315. WEST AFRICAN LITERATURE. An introduction to the literature of West Africa, with emphasis upon the oral tradition and its influence on contemporary Black African and Black American literature. Credit, three quarter hours.

316. **THE POETRY OF THE BLACK AMERICAN.** An intensive study of the poetic contribution of Black Americans from Lucy Terry to Don Lee, with an examination of social and other forces which have contributed to its development. Credit, three quarter hours.

317. **THE PROSE OF THE BLACK AMERICAN.** A study of the literary, social, and historical aspects of the essays, fiction, and drama created by the Black American, from William Wells Brown to Eldridge Cleaver. Credit, three quarter hours.

320. **INTRODUCTION TO THE ENGLISH LANGUAGE.** The nature of language, the structure of modern English, descriptive grammars, and history of the English language with extensive treatment of the development of English in America. Prerequisites: Humanities 107, 108. 109. Five class hours a week. Credit, five quarter hours.

331. **LITERARY ANALYSIS AND CRITICISM:** World masterpieces. For English majors. A study of masterpieces other than English and American. Three class hours a week. Credit, three quarter hours.

332. **LITERARY ANALYSIS AND CRITICISM:** World masterpieces. Continuation of 331. Spring, alternate years. Three class hours per week. Credit, three quarter hours.

401. **SHAKESPEARE.** Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for oral reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. Five class hours a week. Credit, five quarter hours.

403. **CRITICISM:** Modern Poetry. Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to persistent, as well as new, forms and techniques. Prerequisites: English 210 or 211 and 331 or 332. Three class hours per week. Credit, three quarter hours.

405. **THE ENGLISH NOVEL.** An evaluative study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of the four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. Five class hours a week. Credit, five quarter hours.

406. **INTRODUCTION TO DRAMA.** Chronological study of drama, with emphasis on selected writers and their works. Five class hours a week. Credit, five quarter hours.

411. **PLAY PRODUCTION.** A critical study of the types of plays with general principles of directing for each type, editing the script; the fundamentals of casting, lighting, make-up, etc. Prerequisite: English 204. Five class hours a week. Credit, five quarter hours.

413. **ADVANCED SPEECH.** Designed to supplement speech instruction given in Humanities 107, 108, 109. Emphasizes self-improvement in all phases of diction and provides experience in various speaking situations. Designed primarily for teaching majors but can be used by any student. Consent of instructor. Credit, five quarter hours.

415. **THE RHETORIC OF THE BLACK AMERICAN.** A textual and critical study of Afro-American speakers and movements from the 18th century to the present; an appraisal of the significant rhetoric of such speakers as Frederick Douglass, Marcus Garvey, Malcolm X, and Martin Luther King. Credit, three quarter hours.

416. **THE BLACK THEATER.** An examination of the contribution of the Black man to American drama. Traces the development of Black theater from minstrelsy to modern theater workshops. To be offered in alternate years. Credit, three quarter hours.

417. **THE NOVEL OF THE BLACK AMERICAN.** A critical study of the novel created by the Black man in America from William Wells Brown to William Melvin Kelley, with analysis of the literary aspects and racial themes of these novels. (To be offered in alternate years.) Credit, three quarter hours.

440. **THE TEACHING OF ENGLISH.** Concepts, principles, and practices basic to the teaching of English in the secondary school. Emphasis upon readings, discussion, and observation. Prerequisite: Senior classification. Three class hours per week. Credit three quarter hours.

450-451-452. **SEMINAR IN ENGLISH.** Special problems in English. Reports and research techniques. Prerequisite: junior standing. Three courses required of all majors in either their junior or senior years. One class hour a week. Fall, Winter, and Spring. Credit, one quarter hour each.

454. **AMERICAN ENGLISH DIALECTS.** An analytical study of the major American English vernacular varieties with an emphasis

upon Black vernacular English; sociological factors in relation to language learning; and scholastic achievement of the linguistically different. Prerequisites: English 320 and English 413. Spring quarter. Credit, five quarter hours.

COMMUNICATIONS

351. THE MASS MEDIA AND CULTURE. An analytical survey of the forms and modes of mass expressive symbolism from cave painting to comic strip and from drum to electronic medium, with emphasis upon semantics and cultural influences. Fall quarter. Credit, five quarter hours.

352. ELECTRONIC MEDIA (Film, Radio, and Television). An examination of the nature of each medium; audio-visual perception; content analysis; communication theories; critical analysis; types of sponsorship. Winter quarter. Credit, five quarter hours.

361. INTRODUCTION TO JOURNALISTIC WRITING. (Formerly English 410.) A survey of newspaper methods, news writing, and reporting. Prerequisite: English 204. Winter quarter. Credit, five quarter hours.

362. PRINCIPLES OF JOURNALISTIC WRITING. (Formerly English 431.) Principles and practices of writing for newspapers, magazines, trade papers, house organs, etc. Prerequisite: Communications 361. Spring quarter. Credit, five quarter hours.

363. ELECTRONIC JOURNALISM. Principles and practices of newswriting and preparation of commercial copy for radio and television; analysis of auditory and visual elements involved. Emphasis upon news production and editing and copywriting. Prerequisite: English 204. Winter quarter. Credit, five quarter hours.

364. THE BLACK PRESS. A historical and analytical survey of the Black press in America. Credit, five quarter hours.

451. LANGUAGE AND PERSUASION. Principles and practices of classical, tribal African, American Indian, 18th Century American, and contemporary Black rhetoric, including the language of politics, religion, and other significant modes. Fall quarter. Credit, five quarter hours.

461. THE NON-FICTION FEATURE. (Formerly English 432) Writing and merchandising of the non-fiction feature for Sunday

magazine supplements, newspapers, and magazines. Winter quarter. Credit, five quarter hours.

462. THE SCHOOL PRESS. (Formerly English 430.) Emphasis upon college and high school publications with opportunities for professional evaluation and guidance. Summer quarter. Credit, five quarter hours.

463. FEATURE WRITING FOR ELECTRONIC MEDIA. Principles and practices of writing feature material for radio and television: documentaries, specials, and interviews, with emphasis upon both standard and creative forms. Prerequisite: Communications 363. Summer quarter. Credit, five quarter hours.

471. SPEECH FOR RADIO AND TELEVISION, I. Basic techniques for radio and television broadcasting. Emphasis upon newscasting, advertising, sportscasting, and disc jockey formats. Prerequisite: English 413. Winter quarter. Credit, five quarter hours.

472. SPEECH FOR RADIO AND TELEVISION, II. Emphasis upon special programs and audiences: public service features, documentaries, local-talent productions, interviews, panels, etc., in conventional and creative formats. Prerequisites: Communications 463 and 471, or permission of the instructor. Credit, five quarter hours.

481. COMMUNICATIONS OPERATION AND PRODUCTION. Seminar. Emphasis upon the study of the operations and technology involved in production in the various media (behind the scenes in radio stations, recording studios, publishing companies, newspaper companies, etc.). Spring quarter. Credit, five quarter hours.

490. COMMUNICATIONS SEMINAR. Theory and practice in production techniques for investigative journalism, with emphasis upon the documentary. Prerequisites: Comm 361 or 362, or Comm 363 or 481. Credit, five quarter hours.

491. MEDIA INTERNSHIP. On-the-job experience in a communications business or related concern for six weeks or 150 clock hours during the summer preceding the student's senior year. Optional. Credit, five quarter hours.

DEPARTMENT OF FINE ARTS

Coleridge A. Braithwaite, *Chairman*

William J. Anderson

Hedi M. Bak

O. Fred Becker

Arthur L. Britt

Samuel A. Gill

Farnese H. Lumpkin

Christine E. Oliver

James Thompson, Jr.

The Department of Fine Arts encourages students to find in the several areas of music and the graphic and plastic arts an appreciation of aesthetic values in general education and opportunities for the development of their special interests and abilities in these fields. In conformance with the stated philosophy of the college, the department stresses specific objectives in the areas of music and art.

GRAPHIC AND PLASTIC ARTS

The courses in graphic and plastic arts are intended to:

- (1) Provide students with the skills and experiences necessary for teaching art in elementary and secondary schools;
- (2) Prepare students for pure, creative production;
- (3) Provide basic preparation for further study in the various professional fields of art;
- (4) Provide electives for the total growth of students; and
- (5) Enrich the community through art activities such as exhibitions, motion pictures, lectures, and art clubs.

ART EDUCATION

To implement the foregoing objectives, the Department of Fine Arts offers courses leading to the degree of Bachelor of Science in Education, with a concentration in art education. A graduate who has completed the art education program may be recommended to the Division of Teacher Certification for certification as a teacher of art in grades one through twelve.

THE MUSIC PROGRAM

The courses in music lead to the degree of Bachelor of Science in Education, with a concentration in music education. The Bachelor of Music Education degree is given at Armstrong State College in cooperation with Savannah State College. The course descriptions indicate which Armstrong State College courses may be substituted for equivalent courses at Savannah State College.

The curriculum prepares students for certification by the State Department of Education as teachers of music in grades one through twelve; and it provides training in individual and group participation. Adequate preparation for choral conductors and band directors is stressed. Functional piano facility is encouraged for all majors.

It is expected that in all phases of the music program students will be aware of their tremendous responsibility to enrich the lives of people in their communities by their talents, skills, and musical initiative. The creative impulse is strongly encouraged. Emphasis is continuously placed upon musical activities which develop the entire personality by making use of all physical and mental resources necessary to performance, whether it be in the instrumental or vocal areas, and in exercising intelligent judgment in the area of musical creativity.

ADMISSION TO THE MAJOR PROGRAM IN MUSIC

It is desirable that all applicants for admission to the major program in music will have had at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude tests and individual auditions the applicant's theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work.

Art Education Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities - 20 hours required.

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Science - 20 hours required

Mathematics 107-108-110	5-10 hours
Choose one ten-hour sequence from the following:	
Biology 123-124 or 126-127	10 hours
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-294	5-10 hours

Area III - Social Science 21 hours required

Social Science 101-102, 114	11 hours
Courses selected from the following:	10-15 hours
*Political Science 200	
Social Science 111	
Economics 201	
*History 200	

Area IV - All Baccalaureate Degrees - 30 hours required.

Social Science 201	5 hours
Education 216	5 hours
Humanities 233	5 hours
Art 103	5 hours
Art 108	4 hours
Art 116	3 hours
Art 217	3 hours
Physical Education	6 hours

SENIOR COLLEGE CURRICULUM:

- Requirements: 104 quarter hours.
- Art Education: 56 hours as specified below:
- a) Art 238-239 (6), Art 322-323 (10), Art 333 (5), Art 350-351-352 (9), Art Ed 304 (4), Art Ed 401 (5), Art Ed 409 (3), Art 430 (4) 46 hours
- b) Art Education electives: Art 109 (4), Art 250 (3), Art 301 (3) 10 hours

- General Electives: 5 hours required
1. Foreign Language (HMN 141) 5 hours

- Education Courses: 37 hours required
- Education 307 (6), 317 (8), 429 (8), 430 (15) 37 hours

*Required by state of Georgia

CURRICULUM IN MUSIC EDUCATION

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107,108, 110	5-10 hours
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Choose one ten-hour sequence from the following:

Biology 123-124 or 126-127	10 hours
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-204	5-10 hours

Area III - Social Science - 21 hours required

Social Science 101,102,114	11 hours
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Courses selected from the following:

*Political Science 200	10-15 hours
Social Science 111	
Economics 201	
*History 200	

Area IV - All Baccalaureate Degrees - 30 hours required

Social Science 201	5 hours
Education 216	5 hours
Humanities 233	5 hours
Music 111-112-113	9 hours
Music 121-122-123 or	
131-132-133 or	
141-142-143	3 hours
Music 221-222-223 or	
231-232-233 or	
241-242-243	3 hours
Physical Education	6 hours

*Required by the state of Georgia

SENIOR COLLEGE CURRICULUM:

Requirements: 104 quarter hours
Music Education: 56 hours as specified below:

- a) Music 124-125-126 or 134-135-136 or 144-145-146 (3), 224-225-226 or 234-235-236 or 244-245-246 (3), 324-325-326 or 334-335-336 or 344-345-346 (3),321-322-323 or 331-332-333 or 341-342-343 (3), 421 or 431 or 441 (1), 424 or 434 or 444 (1), Music 211-212-213 (9), Mus 307 (3), Mus 311 (3), Mus 314-315-316 (9), Mus 407 (3), Mus 411 (3), Mus Ed 301 (3), Mus Ed 308 (3), Mus Ed 412 (1) .. 51 hours
- b) Music Education electives:
Music 010-011-012, 020-021-022,030-031-032, 040-041-042, 050-051-052 (5) 5 hours
(Additional electives include Music 210 (3), 306 (3), 310 (3), and 410 (3) if student's schedule permits.

- General Electives: - 5 hours required
- 1. Foreign Language - Hum 141 5 hours
- Education Courses: - 43 hours required
- Education 307 (6), 317 (8), 429 (8), 430 (15) 37 hours



COURSE DESCRIPTIONS

ART
Graphic and Plastic Arts

103. BASIC DESIGN. An introduction to the core principles and elements of all graphic and plastic design. Problems and discussion evolve around two and three-dimensional design. One-class hour and four two-hour studio periods a week. Fall. Credit, five quarter hours.

108. DRAWING. Problems in various media. Emphasis on drawing media such as charcoal, chalk, crayon, pen and ink. Studio problems and field trips. Prerequisite: Art 103. Four two-hour studio periods a week. Winter. Credit, four quarter hours.

116. CRAFTS I. Experiences in significant craft materials: wood, fabrics, and metal. Students will experience elementary weaving techniques, fabric printing, jewelry and metal projects, and techniques of wood crafts. Prerequisites: Art 103, Art 108. Three two-hour studio periods a week. Spring. Credit, three quarter hours.

217. CRAFTS II. A continuation of Art 216. Three two-hour periods a week. Fall. Credit, three quarter hours.

238. CERAMICS I. An initial study of ceramic processes such as modeling, stacking, firing, glazing, and decorating ceramic forms. One class hour, two two-hour periods a week. Winter. Credit, three quarter hours.

239. CERAMICS II. A continuation of Art 238. Emphasis on design, decorating, and classroom application in the public schools. Three two-hour studio periods a week. Spring. Credit, three quarter hours.

322. PAINTING I. An introduction to painting media and painting techniques including encaustic and gouache. Five two-hour studio periods a week. Winter. Credit, five quarter hours.

323. PAINTING II. A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. Five two-hour periods a week. Spring. Credit, five quarter hours.

333. SCULPTURE. A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. Five two-hour studio periods a week. Spring. Credit, five quarter hours.

430. PRINTMAKING. Designed to provide creative experiences in the reproductive arts. Experiences evolve around monotype and linoleum, also initial experiences in advanced forms of printmaking, such as lithography. Discussions on survey of world printmakers. One class hour and three two-hour studio periods a week. Fall. Credit, four quarter hours.

ART HISTORY

350. HISTORY OF ART I. A chronological perspective of art history from prehistoric times to the Renaissance. Three class hours per week. Fall. Credit, three quarter hours.

351. HISTORY OF ART II. A chronological perspective of art history from the Renaissance to the end of the nineteenth century. Three class hours per week. Winter. Credit, three quarter hours.

352. HISTORY OF ART III. A chronological perspective of art history of the twentieth century including a study of the major achievements and expressional trends in architecture, painting, sculpture and graphic art. Three class hours per week. Spring. Credit, three quarter hours.

ART EDUCATION

304. ART EDUCATION. An introduction to art education, philosophy, and practice. Discussion, observation, and studio participation. One class hour and three two-hour studio periods a week. Fall. Credit, four quarter hours.

401. PUBLIC SCHOOL ART. Designed to acquaint majors in Elementary Education and Art Education with the techniques and mechanics for developing an elementary art program. Work is given in three-dimensional and two-dimensional forms. One class hour and four two-hour studio periods a week. Fall, Winter, or Spring. Credit, five quarter hours.

409. SEMINAR IN ART PROBLEMS. Designed especially for majors who will teach art. Specific problems in Art Education: field trips; discussion of professional qualities; art in the community; interrelationships of various conditions of art. Prerequisites: Art Ed. 304 and 401. Three class hours a week. Winter. Credit, three quarter hours.

APPLIED ART

130. APPLIED ART, PRINCIPLES. Fundamental principles of art and their practical application in the use of color, line and form. Emphasis is placed upon recognition and appreciation of beauty in the immediate surroundings. Two class hours and three two-hour laboratory periods a week. Spring Quarter. Credit, five quarter hours.

232. COSTUME DESIGN. Study of dress with emphasis on line and color in relation to the individual. Problems include figure drawing, planning a personal wardrobe, adapting current and historic modes to individual appearance, creating color ensembles, correcting the figure with designs, and improving poor selection. Prerequisite: Art 130. Two class hours and three two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.

234. **ADVANCED DESIGN.** Further practice in the application of color in line and form. Creative expression in various types of art media. Prerequisite: Art 130. One class hour and two two-hour laboratory periods a week. Fall. Credit, three quarter hours. **ELECTIVE.**

330. **INTERIOR DESIGN.** Planning, designing, and decorating single rooms, apartments, and houses to meet personal and family problems involved in present-day aesthetic needs; house plans and arrangements; furnishings and color; treatment of backgrounds. Two class hours and three two-hour laboratory periods a week. Prerequisite: Art 130. Winter. Credit, five quarter hours.

340. **HISTORY OF COSTUME.** The historical, literary, and artistic background of the costumes of various countries from early civilization to the present. Prerequisites: Art 130, 232, or the equivalent. Five one-hour lecture periods per week. Winter or Spring. Credit, five quarter hours. **ELECTIVE.**

346. **ADVANCED COSTUME DESIGN.** Creative designing for the fashion figure; sources of fashion inspiration; factors in fashion trend and acceptance. Prerequisites: Art 130 and Art 232. Three two-hour laboratory periods per week and two one-hour lectures. Winter or Spring. Credit, five quarter hours.

420. **CREATIVE CRAFTS-WEAVING.** Techniques of weaving on four-harness table and floor looms; creative drafting and pattern weaving; design, color, and texture applied to textile construction; recent trends and developments. Two class hours and three two-hour laboratory periods a week. Winter or Spring. Credit, five quarter hours.

ART ELECTIVES

109. **LIFE DRAWING.** Portrait and figure drawing, study of anatomy as to proportion and balance of the human figure. Drawing from the live model with an emphasis on structure, interpretation and movement. The course develops accurate observations, the understanding of the human figure, and an effective use of drawing media. Four two-hour studio periods a week. Fall, Winter or Spring. Credit, four quarter hours. **ELECTIVE.**

250. **INTRODUCTION TO WORLD ART.** A survey and comparison of contemporary world art of various epochs, with emphasis on the art of Africa and the Orient. Classes will utilize lantern slides, cinema, gallery tours, group discussions, and assigned topics. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours. **ELECTIVE.**

301. BASIC PHOTOGRAPHY. An exploration of photography with fundamentals of theory, processes, and equipment. Participation by students in all aspects of photography with an emphasis on shooting techniques, darkroom procedure, and presentation methods. Three two-hour studio periods per week. Fall, Winter, Spring. Credit, three quarter hours. Elective.

MUSIC

Applied

010-011-012, 020-021-022, 030-031-032, 040-041-042, 050-051-052. BAND, MEN'S GLEE CLUB, WOMEN'S ENSEMBLE. These organizations are open for elective credit to all students, but participation by majors in music is required for four years. Majors in elementary education are especially encouraged to enroll. Fall, Winter, and Spring. Credit, one hour per quarter for three quarters during the Freshman year, two quarters during the sophomore year.

121-122-123. FUNDAMENTALS OF BAND INSTRUMENTS. Brass, Woodwind, and Percussion: Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signatures, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

131-132-133. FUNDAMENTALS OF PIANO. These courses introduce techniques and basic musical knowledge such as notes, rhythms, time signatures, tempo markings, fingering, and phrasing. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

141-142-143. FUNDAMENTALS OF VOICE. Vocal technique, diction, breathing, and posture are stressed and applied to songs with specific vocal problems. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

124-125-126, 134-135-136, 144-145-146; 224-225-226, 234-235-236, 244-245-246, 324-325-326, 334-335-336, 344-345-346, 424-434-444. APPLIED MAJOR AREAS. These course are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

221-222-223. INTERMEDIATE BAND INSTRUMENTS. Brass, Woodwind, and Percussion: A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, bass, and kettle drums. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

231-232-233. INTERMEDIATE PIANO. A continuation of Music 131-132-133. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

241-242-243. INTERMEDIATE VOICE. This course continues the development of Music 141-142-143. More particular attention is given to understanding the oratorio, cantata, recitative, and German lieder. One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

321-322-323. ADVANCED BAND INSTRUMENTS. Brass, Woodwind, and Percussion. Emphasis is placed on building a music library of concert materials and methods. Wind instrument players will study single, double, and triple-tonguing. Percussion players will develop their ability to execute with facility and will study various percussion instruments of definite pitch. One class hour per week. Fall, Winter, Spring. Credit, one quarter hour each quarter.

331-332-333. ADVANCED PIANO. Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed. One class hour per week. Fall, Winter, Spring. Credit, one quarter hour each quarter.

341-342-343. ADVANCED VOICE. The continuation of vocal technique studied in previous courses. Vocal forms in several languages will be introduced. One class hour per week. Fall, Winter, Spring. Credit, one quarter hour each quarter.

421. SENIOR BAND INSTRUMENTS. Brass, Woodwind, and Percussion. Continued emphasis is placed on building a music library, concert material, and methods. Stress is placed on complete mastery in playing and in public performances. One class hour per week. Fall. Credit, one quarter hour.

431. SENIOR PIANO. Concert repertoire and public performances will be stressed. One class hour per week. Fall. Credit, one quarter hour.

441. SENIOR VOICE. During this year the student will concentrate primarily on perfecting his repertoire. One class hour per week. Fall. Credit, one quarter hour.

CONDUCTING

407. CONDUCTING. A study of the techniques of conducting and interpretation. Three class hours per week. Fall. Credit, three quarter hours. Equivalent course at Armstrong State College: Music 381.

HISTORY

314-315-316. HISTORY AND LITERATURE OF MUSIC. A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development in their countries. Three class hours per week. Fall, Winter, Spring. Credit, three quarter hours each quarter. Equivalent courses at Armstrong State College: Music 371-372-373.

THEORY

111-112-113. THEORY I. (Ear-Training and Sight-Singing). A course in notation, time signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading, and musical dictation. Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter.

211-212-213. THEORY II (Harmony). A continuation of Theory I with a study of modulations, advanced chords, harmonization of melodies, and analyses of standard compositions. Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter. Equivalent courses at Armstrong State College: Music 211-212-213.

307. ORCHESTRATION AND INSTRUMENTATION. A study of the range, playing techniques, and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. Three class hours per week. Fall. Credit, three quarter hours. Equivalent course at Armstrong State College: Music 361.

311. THEORY III (Form and Analysis). A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analyses of pieces by major composers. Three class hours per week. Spring. Credit, three quarter hours. Equivalent course at Armstrong State College: Music 312.

411. THEORY IV (Counterpoint and Composition). A course designed to give creative experiences in contrapuntal and compositional techniques in various forms of music. Prerequisites: Music 111-112-113, 211-212-213, 307 and 311. Three class hours per week. Fall. Credit, three quarter hours.

MUSIC EDUCATION

300. FUNDAMENTALS OF ELEMENTARY SCHOOL MUSIC. A course in notation, scales, key signatures, intervals, ear-training, and sight-singing. Special attention is given to these elements as they apply to children's songs. Required for majors in Elementary Education. Three class hours per week. Fall, Winter or Spring. Credit, three quarter hours.

301. PUBLIC SCHOOL MUSIC—ELEMENTARY GRADES. The singing of rote songs, the making of rhythm band instruments, playing flutes, playing the autoharp, melody bells, and resonator bells, conducting, and writing units are some of the activities in this course. Prerequisites: Music 111-112-113 for Music Majors; Music Education 300 for majors in Elementary Education. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours.

308. HIGH SCHOOL MUSIC. A study of the methods and materials for teaching music in the Junior and Senior high schools. Three class hours per week. Spring. Credit, three quarter hours. Equivalent course at Armstrong State College: Music Ed. 351.

412. SEMINAR IN MUSIC EDUCATION. This course is organized to assist Senior music majors with specific problems in Music Education and to prepare them to handle special projects within their areas of interest. One class hour per week. Winter, Credit, One quarter hour.

MUSIC ELECTIVES

210. AFRO—AMERICAN MUSIC. A cultural analysis of African folk music and its influence upon the development of spirituals, work songs, and jazz. Contributions of Afro-American music to both popular and classical traditions will be studied. Three class hours per week. Fall, Winter or Spring. Credit, three quarter hours. Elective.

306. CHORAL TECHNIQUES. This course is designed to develop basic techniques for choral musicians. Meter patterns, preparatory beats, cueing, diction, blend, balance, and intonation are discussed. Musical scores are prepared. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours. Elective.

310. JAZZ ENSEMBLE. This course is designed to expose the student to composers and arrangers of jazz, rock, and soul music. The subject of improvisation is also included. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours. ELECTIVE.

410. MODERN MUSIC. A study of compositions written since 1900 with particular emphasis upon recent developments in form, compositional techniques, and new media of musical expression. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours. ELECTIVE.

Department of Modern Languages

CHRISTOPHER D. KOCH, *Acting Head*

Joseph C. Anderson
Althea V. Morton

Deborah McIntosh
Eusebio M. Valle**

The aims of the Department of Modern Languages are (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our own cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

LANGUAGE PROGRAMS

To realize these aims the Department offers instruction in the foreign languages (French, German, and Spanish) which are generally required in the several curricula of the college. In addition, it offers courses leading to the degree of Bachelor of Science in Education with a concentration in French or Spanish. The language teaching program requires completion of a minimum of forty quarter hours in one foreign language, beyond the elementary courses. A student completing the degree requirements with one of these sequences may be recommended for certification to teach the language.

This Department offers also a minor in French and a minor in Spanish. The French minor comprises French 241, 242, 243, 341, 342, 343. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

**Retired, June, 1974

THE GENERAL REQUIREMENT

The general modern language requirement is one year (15 quarter hours) of acceptable work in one language. Students who have had no foreign language and those who present fewer than two units of high school credit normally take the elementary course. If a student has earned two or more units in a foreign language in high school and continues the study of the same language, it is recommended that he take an examination administered by the Department for placement purposes. When a student begins the study of a foreign language at the intermediate level, two courses are sufficient to meet the language requirement for graduation.

French and Spanish Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours exclusive of physical education

Area I. - Humanities

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. - Mathematics and Natural Sciences - 20 hours required

Mathematics:

Mathematics 107	5 hours
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Natural Sciences:

Biology 123-124	10 hours
Physical Science 203	5 hours

Area III. - Social Sciences

Social Science 101-102	10 hours
Political Science 200	5 hours
History 200	5 hours

Area IV. - Courses Appropriate to the Major

Humanities 141-142-143 or 161-162-163	15 hours
Humanities 233	5 hours
Social Science 111	5 hours
Social Science 201	5 hours
Physical Education	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Additional General Education Courses: 9 hours required	
Humanities 234	4 hours
Philosophy 300 or 301 or 302	5 hours
Professional Education Courses: 41 hours required	
Education 216, 305, 317, 429, 430	41 hours
Modern Languages: 40 hours required	
French 241-242-243 or Spanish 261-262-263	15 hours
French 341-342-343-344 or Spanish 361-362-363-364.	15 hours
French 441 or 442, 444 or Spanish 461 or 462, 464.	10 hours
Approved Electives:	15 hours

Study Abroad Programs of the University System of Georgia allow for earning 15 or more hours in French or Spanish at the senior college level by summer study in France or Spain.

DESCRIPTION OF COURSES

FRENCH

141-142-143. ELEMENTARY FRENCH. Intended for students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple, everyday French. The courses are to be taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

201-202-203. FRENCH CULTURAL ACTIVITIES. Refinement of the student's knowledge of French culture through viewing and discussing films, slides, etc.; listening to recordings and learning of songs and/or dances; geography through maps and charts; participation in typical games; hearing short lectures on art, history, customs; possible production of a short play. *Prerequisite: Present or previous enrollment in any course in the language. One session a week for 100 minutes. Fall, Winter, Spring. Credit, one quarter hour each.*

241-242. INTERMEDIATE FRENCH. For students who have had one year of college French or who have had two years of high school French and pass an appropriate examination. An intensive review of the basic principles of the language and practice in speaking and writing based on readings of moderately difficult prose. The courses are taken in sequence. *Prerequisite: French 143, or a satisfactory grade in the placement test administered by the Department. Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

243. FRENCH CONVERSATION AND COMPOSITION. This course is designed to accustom the student to understand, speak, and write conversational French. It is conducted primarily in French. *Prerequisite: French 242. Five class hours a week. Spring. Credit, five quarter hours.*

341-342. SURVEY OF FRENCH LITERATURE. This course begins with the literature of our times and ends with the chanson de geste. Emphasis is placed on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Attention is paid to poetry as well as prose. Conducted mainly in French. The courses are taken in sequence. *Prerequisite: French 242. Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

343. FRENCH CIVILIZATION. This course, conducted mainly in French, seeks to acquaint the student with the principal contributions of France to Western civilization. *Prerequisite: French 242. Four class hours a week. Credit, four quarter hours.*

344. ORAL COMMUNICATION. In this course the student develops further his ability to understand and speak French. Discussion of topics of national and international interest found in news media and in French publications. Conducted in French. *Prerequisite: French 243. Five class hours a week. Credit, five quarter hours.*

345-346-347. STUDY IN FRANCE. Study in France for one summer in the Study Abroad Program of the University System of Georgia. The student lives with a French family, takes courses in language, literature and civilization, and is expected to participate in the extra-curricular activities planned by the staff of the Study Abroad Program. *Prerequisite: French 243. Credit, five quarter hours each.*

441. LITERATURE OF THE XVIIITH CENTURY. The important plays of Corneille, Racine, and Moliere are studied. Lectures, readings, reports and discussions. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

442. THE ROMANTIC MOVEMENT. A study of the origins, the history, the principal authors, and the influences of the Romantic Movement. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

444. LITERATURE OF THE XXTH CENTURY. Lectures, readings, reports, and discussion of the principal writers and trends of

French literature today. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

445. SPECIAL PROBLEMS IN FRENCH. An investigation of an area of special interest to the student and to the instructor. *Prerequisite: Consent of the department head. One to five class hours a week. Credit, one to five quarter hours.*

GERMAN

151-152-153. ELEMENTARY GERMAN. (Formerly 221-222-223.) For students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple everyday German. The courses are taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

201-202-203. GERMAN CULTURAL ACTIVITIES. Refinement of the student's knowledge of German culture through viewing and discussing films, slides, etc.; listening to recordings and learning of songs and/or dances; geography through maps and charts; participation in typical games; hearing short lectures on art, history, customs; possible production of a short play. *Prerequisite: present or previous enrollment in any course in the language. One session a week for 100 minutes. Fall, Winter, Spring. Credit, one quarter hour each.*

SPANISH

161-162-163. ELEMENTARY SPANISH. These courses are intended for students who have not studied the language previously. The work provides intensive practice in hearing, speaking, reading and writing simple, everyday.

201-202-203. SPANISH CULTURAL ACTIVITIES. Refinement of the student's knowledge of Spanish culture through viewing and discussion films, slides, etc.; listening to recordings and learning of songs and/or dances; geography through maps and charts; participation in typical games; hearing short lectures on art, history, customs; possible production of a short play. *Prerequisite: present or previous enrollment in any course in the language. One session a week for 100 minutes. Fall, Winter, Spring. Credit, one quarter hour each.*

261-262. INTERMEDIATE SPANISH. For students who have had one year of college Spanish, or who have had two years of high school Spanish and pass an appropriate examination. An intensive review of the basic principles of the language; practice in speaking and

writing based on readings of moderately difficult prose. The courses are taken in sequence. *Prerequisite: Spanish 163, or a satisfactory grade in the placement test administered by the Department. Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

263. SPANISH CONVERSATION AND COMPOSITION. The main purpose is to accustom the student to understand, speak, and write conversational Spanish. It is conducted mainly in Spanish. *Prerequisite: Spanish 262. Five class hours a week. Spring. Credit, five quarter hours.*

265-266 SPANISH FOR COMMUNITY WORKERS AND LAW ENFORCEMENT OFFICERS. For students with or without previous study of the language. Course objective is attainment of comprehension and speaking ability stressing expressions used in typical situations with Latin-Americans in U.S. cities, and enhancement of student's performance potential on future job assignments. Reading and writing complement the listening and speaking skills. *Three class hours and one lab hour a week. Fall, Winter (Spring, Summer), Credit, three quarter hours each.*

361-362. SURVEY OF SPANISH LITERATURE. These courses introduce the student to some of the principal authors, literary compositions, and ideas in the literature of Spanish-speaking countries. Conducted mainly in Spanish. The courses are taken in sequence. *Prerequisite: Spanish 262. Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

363.SPANISH CIVILIZATION. This course, conducted mainly in Spanish, seeks to acquaint the student with the principal contributions of Spain to Western Civilization. *Prerequisite: Spanish 262. Four class hours a week. Credit, four quarter hours.*

364. ORAL COMMUNICATION. In this course the student further develops his ability to understand and to speak the language. Discussion of topics of national and international interest found in the news media and in Spanish magazines. Conducted in Spanish. *Prerequisite: Spanish 263. Five class hours a week. Spring. Credit, five quarter hours.*

365-366-367. STUDY IN SPAIN. Study in Spain for one summer in the Study Abroad Program of the University System of Georgia. The student lives with a Spanish family, takes courses in language, literature and civilization, and is expected to participate in the ex-

tracurricular activities planned by the staff of the Study Abroad Program. *Prerequisite: Spanish 263. Credit, five quarter hours each.*

461. LITERATURE OF THE GOLDEN AGE. Lectures, readings, reports and discussions on the principal authors of the XVIth and XVIIth centuries. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Winter. Credit, five quarter hours.*

462. LITERATURE OF THE XIXTH CENTURY. A study of the principal figures of the century in the novel, drama and poetry-with special attention to Modernism, Regionalism, Realism and Romanticism. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Winter. Credit, five quarter hours.*

463. SPANISH-AMERICAN LITERATURE. A study of the principal authors and literary forms in the literature of Spanish America from the present to its beginnings in the colonial period. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Fall. Credit, five quarter hours.*

465. SPECIAL PROBLEMS IN SPANISH. An investigation of an area of special interest to the student and to the instructor. *Prerequisite: Consent of the department head. One to five class hours a week. Credit, one to five quarter hours.*



DIVISION OF NATURAL SCIENCES

MARGARET CHISHOLM ROBINSON, *Chairman*

The philosophy and purposes of the Division of Natural Sciences are, in general, consistent with the overall philosophy of the college. Specifically, the Division accepts the responsibility to help students:

1. To gain basic preparation, knowledge and skills necessary to the satisfaction of their personal needs as well as the needs of home and society.
2. To acquire specialized training in one of the Natural Sciences, and to develop individual talents and intellectual curiosity which are essential to further study and progress.
3. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.

Department of Biology

MARGARET CHISHOLM ROBINSON, *Head*

J. B. Benson
C. O. Emeh
F. R. Hunter
P. V. Krishnamurti

G. K. Nambiar
M. J. Stone
B. L. Woodhouse

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to provide preprofessional training for persons interested in pursuing health careers such as medicine, veterinary medicine, dentistry, pharmacy, and paramedical careers such as medical technology, nursing, physical therapy, medical illustration, medical social worker, and medical secretaries; (3) to provide preprofessional study through the media of advanced courses for persons interested in careers requiring graduate work such as industrial and biological research, public health, college-level teaching, medical school teaching, secondary school teaching, and specialists in the biological sciences.

To realize these aims, the Department of Biology offers courses leading to the Degree of Bachelor of Science with a major in Biology as well as a minor.

In addition, the Department of Biology offers courses for satisfying requirements for the Bachelor of Science in Education with a concentration in Biology.

PLAN OF STUDY

Biology 123-124 is designed for non-science majors as a part of the general curriculum. The Biology Major: Biology 128, 200, 201, 202 and 203 comprises the basic Modern Biology Core requirements for all students majoring in Biology, and who desire training preparatory to either medical and paramedical careers or graduate study. Subsequent to the sequential completion of the Biology Core, students are required, in counsel with academic advisors, to select an option of biology electives according to their interest and desired area of concentration. The Biology Electives Option becomes a part of the student's formal records as requirements for graduation filed in the Department of Biology and in the Registrar's Office.

Students interested in paramedical (Health) careers satisfy the two-year basic Modern Biology Core sequence and science cognates according to specific requirements of selected specialized training schools. Students are required to plan health careers curriculums with an assigned advisor.

For the major at least thirty-five quarter hours on the junior and senior levels are required. For the minor, at least twenty-five quarter hours on the junior and senior levels are required.

Biology Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I. - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. - Mathematics and Natural Sciences - 20 hours required

Mathematics:

Mathematics 107-108	10 hours
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Natural Sciences:

Chemistry 101-104 10 hours

Area III. - Social Sciences - 21 hours required

Social Science 114 1 hour

Social Science 102-201 10 hours

Political Science 200 and History 200 10 hours

Area IV. - Courses Appropriate to Major - 30 hours required

Physics 201-202 10 hours

Biology 128, 200, 201, 202, 203 15 hours

Humanities 233-234 5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Biological Sciences: 35 hours in Biology courses numbered 300 or above including:

Biology 303, 401 or 406, 430, 431

Biological Science Electives: 20 hours selected from the following Biology major Options:

Ecology, Marine Biology, Microbiology, Zoology or Botany

Electives: 40 hours required as specified below:

Chemistry 303, 307, 308, 404 20 hours

Mathematics 212 5 hours

Modern Foreign Language 15 hours

Biology Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I. - Humanities - 20 hours required

Humanities 107-108-109 15 hours

Humanities 232 5 hours

Area II. - Mathematics and Natural Sciences - 20 hours required

Mathematics:

Mathematics 107-217 10 hours

Natural Sciences:

Chemistry 101-104 10 hours

Area III. - Social Sciences - 21 hours required

Social Science 114 1 hour

Social Sciences 111-201 10 hours

Political Science 200 and History 200 10 hours

Area IV. - Courses Appropriate to the Major 30 hours required

Physics 201-202 or 201-203 10 hours

Biology 128, 200, 201, 202, 203 15 hours

Earth Science 221 5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Biological Sciences: 28 hours required

Biology 301, 303, 307, 318, 435 28 hours

Modern Foreign Language 10 hours

Electives: 18 hours selected mainly from the following:

Chemistry 303, 307, 308

Physics 306, 307, 308, 312, 410

Earth Science 223, 300, 320, 404

Education Courses: 42 hours required as specified below:

Education 216, 307, 317, 429, 430

BIOLOGY MAJOR ELECTIVE OPTIONS

Ecology Group

Junior: — 301 General Botany (in place of Hist. and Microtechnique),
406-Plant Physiology

Senior: — 309-Principles of Ecology, 400-Physiological Ecology, 328
Field Ecology

Marine Biology Group

Junior: — 315-Invertebrate Zoology

Senior: — 415-Marine Biology, 400-Physiological Ecology, 301-
General Botany, 320-Nonvascular Plants, 328-Field Ecology

Microbiology Group

Junior: — 301-General Botany

Senior: — 401-General Physiology, 425-Bacterial Physiology, 426-Virology, 427-Mycology

Zoology Group

Junior: — 301-General Botany

Senior: — 315-Invertebrate Zoology, 318-Vertebrate Structure and Function, 326-Vertebrate Embryology, 401-General Physiology, 421-Natural History of Vertebrates

Botany Group

Junior: — 301-General Botany

Senior: — 315-Invertebrate Zoology, 320-Nonvascular plants, 321-Vascular Plants, 406-Plant Physiology, 324-Plant Anatomy

PARAMEDICAL (HEALTH) CAREER OPTIONS

Medical Technology	Dental Hygiene
Medical Illustration	Medical Secretary
Physical Therapy	PreDentistry
Occupational Therapy	PrePharmacy
Medical Record Librarian	Hospital Administration
Radiology Technology	Medical Accounting
Medical Social Worker	

Biology Core Sequence - Biology 128, 200-201-202-203.

Mathematics - 107-108; 212-213.

Chemistry - 101-104; 307-308

Physics - 201-202.

DESCRIPTION OF COURSES

120. FRESHMAN BIOLOGY SEMINAR. Topics in the Biological Sciences emphasizing the integration of Physical and Chemical phenomena with biology. (Discussions will include quantitative aspects such as units of measurement, interpretation of experimental results, handling of graphical data, and the role of chemical reactions in the control of plant and animal growth and development. Two class hours. Fall, Winter, Spring. Credit, two quarter hours.

123-124. GENERAL BIOLOGY. An introductory course for non-science majors which deals with the fundamental principles of plant

and animal life. Biology 123 is prerequisite to Biology 124. Three class hours and two two-hour laboratory periods a week. Fall, Winter, Spring. Credit, five quarter hours.

128. PRINCIPLES OF BIOLOGY. Presentation of Biology in broad perspective; to include such topics as origin of life, reproduction, heredity, interrelationship of living things to their environment. Prerequisite: General Inorganic Chemistry. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

200. MOLECULAR AND CELLULAR BIOLOGY. Concepts of biochemistry and biophysics of cells, nutrition, metabolism and energy transfer, molecular genetics, cellular anatomy and physiology, cytology and ultrastructure. Prerequisite: Principles of Biology. Two class hours and two two-hour laboratory periods a week. Fall. Credit, three quarter hours.

201. ORGANISMAL BIOLOGY. Relates Molecular and Cellular biology to the organismal concept, emphasizing structural and functional aspects of whole organisms (vertebrate animals and vascular plants), their development, life histories, behavior, diversity and evolution. Prerequisite: Molecular and Cellular Biology. Two class hours and two two-hour laboratory periods a week. Winter. Credit, three class hours.

202. BIOLOGICAL ORGANIZATION AND CONTROL. Concepts of Mendelian genetics, morphology, growth and development, reproduction, tissue and organ structure, neural and endocrine control mechanisms, feedback and cybernetics. Prerequisite: Organismal Biology. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

203. ENVIRONMENTAL BIOLOGY. Studies of population genetics and dynamics, environmental adaptations, evolution, behavior, ecology, and telemetry. Prerequisite: Biological Organization and Control. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

204. ENVIRONMENTAL AND EVOLUTIONARY ISSUES. Major issues facing mankind from a biological perspective such as overpopulation, food supply, pollution, nuclear energy utilization, genetic basis of race, medical and hereditary issues, etc. Credit, two quarter hours. Fall. Winter. Spring.

205. SELECTED TOPICS IN MODERN BIOLOGY. Current

topics and problems which confront or support the future well-being of the human population such as the Sickle Cell Anemia problem, organ transplantation, cryosurgery, utilization of synthetic food products, aquiculture, conception and contraception, aging, etc. Credit, two quarter hours. Fall. Winter. Spring.

206. INTRODUCTION TO LIFE CHEMISTRY. A discussion of compounds found in living organisms, their biochemical reactions and their significance to living processes. Details of background material will be presented from a viewpoint stressing important fundamentals only. Dedicated to the study of life, the course will stress the contributions of biochemistry and biochemical processes to an understanding of modern biology. Prerequisites: Chemistry 101, 104. Three quarter hours. Fall. Spring. Credit, three quarter hours.

207. BIOLOGY OF AGING: UNDERSTANDING THE GOLDEN YEARS OF LIFE. A study of the human body, physiological and emotional changes during the aging process, and some practical methods of adjusting to these changes. Credit, two quarter hours. Fall. Winter. Spring.

301. GENERAL BOTANY. A survey of the plant kingdom with emphasis upon the economic plants. Prerequisites: General Inorganic, and at least one course in introductory biology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

302. FIELD BOTANY. A study of flowering plants common to this area, including the identification, classification, and preservation of plant specimens. Prerequisite: General Botany. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

303. PRINCIPLES OF GENETICS. Fundamental principles of Genetics: Variation, heredity, physical basis of mendelian inheritance, expression and interactions of genes, sex-linkage, linkage mutation and extra chromosomal inheritance. Study also includes basic concepts in regard to biochemical Genetics and population Genetics. Prerequisites: At least two or three courses in Biology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

304. BIOLOGICAL HISTOCHEMISTRY AND MICRO-TECHNIQUE. The sectioning, staining and preservation of biological materials. Theory and application of modern technics and instruments to Biological problems. For the advanced Biology student.

Prerequisites: Organic Chemistry and at least three courses in Biology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

306. MICROBIOLOGY. An introduction to some fundamental concepts and techniques of microbiology, with emphasis on bacterial anatomy and physiology, principles of microbial growth, nutrition, and metabolism. Prerequisites: Five hours of Organic Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

307. HUMAN ANATOMY AND PHYSIOLOGY. A detailed study of the location and functions of the organs in the human body. Prerequisites: Five hours of Organic Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

308. PLANT MORPHOLOGY AND STRUCTURE. A general consideration of the major plant groups inclusive of certain major angiosperms. The viruses, bacteria, algae, fungi, bryophytes, pteridophytes and gymnosperms will be considerably emphasized. Prerequisites: General and Field Botany. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

309. PRINCIPLES OF ECOLOGY. The structure and function of ecosystems in regard to energy flow, nutrient cycling, population growth and regulation, and community organization and dynamics. Man's impact on ecosystems and resulting social problems. Much of the laboratory work will be conducted in the field. Prerequisites: General Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

311. GENERAL OCEANOGRAPHY. Approximately three weeks each devoted to Physical and Meteorological Oceanography, Geological Oceanography, Chemical Oceanography, and Biological Oceanography. Emphasis upon interrelationship of the various branches of Marine Science and the role of the oceans in global physical and ecological cycles. Prerequisites: Inorganic Chemistry. General Physics, and Twenty hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall, Spring. Credit, five quarter hours.

315. INVERTEBRATE ZOOLOGY. A study of major phyla and classes of invertebrate animals, morphology, physiology, life histories

and taxonomic relationships of selected representatives of the groups. Prerequisites: Ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

318. VERTEBRATE STRUCTURE AND FUNCTION. (Amalgamation of Comparative Vertebrate Anatomy and Histology of Vertebrates) - The comparison of the structure and development of organ systems in the different vertebrate groups, with emphasis on the gross anatomy of the cat including a study of cells and tissues and the organization in organs and organ systems. Prerequisites: Fifteen hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

324. PLANT ANATOMY. A general consideration of the anatomy of seed plants with special emphasis on angiosperms. Prerequisite: Plant Morphology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

326. VERTEBRATE EMBRYOLOGY. The early embryological development of vertebrate including fertilization, cleavage and origin of organ systems. Prerequisite: Biological Histochemistry. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

328. FIELD ECOLOGY. An advanced field course involving population ecology. Methods of measuring plant and animal populations, demographic analysis and movements of organisms will be intensively studied. Primarily a field course for upper classmen. Prerequisites: General Botany and Invertebrate Zoology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

330. HISTORY OF BIOLOGY. A comprehensive study of the broad features of biological progress, sources of ideas that dominate biology, major doctrines, theories, and contributions of outstanding scientists in preserving continuity of development in biological thought. Prerequisites: Fifteen hours of Biological Sciences. Three class hours. Fall. Credit, three quarter hours.

400. PHYSIOLOGICAL ECOLOGY. A study of the anatomical, biochemical, and physiological adaptations of plants and animals to specific environments. Emphasis will be placed on the physiological problems faced by organisms common to the local salt marsh and

marine environments. Prerequisites: Principles of Ecology and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

401. GENERAL PHYSIOLOGY. A study of the physics and Chemistry of mechanisms underlying functional occurrences in living organisms, particularly those involved in homeostasis. Prerequisites: Twenty hours of Biological Sciences, Organic Chemistry, and General Physics. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

404. GENERAL PARASITOLOGY. An introduction course which covers the methods of identifying, classifying, and studying the life cycles of parasites that affect both plants and animals. Major emphasis is placed upon species infesting man and local marine fauna, and includes their structure, physiology, ecology, life cycle, and pathogenicity. Prerequisites: General Botany. Invertebrate Zoology, and ten hours of Inorganic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

406. PLANT PHYSIOLOGY. An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. Prerequisites: General and Field Botany and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

411. GENERAL PHARMACOLOGY. This course is designed to discuss the general principles of Pharmacology, prescription writing, drug prices, the automatic drugs, cardiovascular drugs, sedatives and hypnotics, alcohol, histamines and antihistamines, analgesic drugs and drugs affecting behavior. Prerequisites: Twenty-five quarter hours of Biological Science (including General Botany and General Physiology), Organic Chemistry, and General Physics. Three class hours and one two-hour laboratory period a week. Winter. Credit, five quarter hours.

412. GENERAL PHARMACOLOGY. Continuation of Biology 411, and includes such topics as general anesthesia, local anesthetics, drugs acting on the gastro-intestinal tract, diuretics, chemotherapeutic agents, chemotherapy of certain neoplastic diseases, gonadal hormones, insulin and oral hypoglycemic agents, poisons and antidotes, and pesticides. Prerequisites: Biology 411. Three class hours and one two-hour laboratory a week when applicable. Spring. Credit, five quarter hours.

415. MARINE BIOLOGY. An introduction to the physiology, morphology, taxonomy, and ecology of marine organisms. A brief examination of the various marine biotopes, methods of sampling, examination and identification of marine organisms, and data processing and interpretation. Prerequisites: Inorganic and Organic Chemistry and Twenty hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall, Spring. Credit, five quarter hours.

418. PHYSIOLOGICAL CHEMISTRY. A course dealing with fundamentals of biological chemistry with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and regulation of cellular processes. Prerequisite: Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

424. RADIATION BIOLOGY. A course dealing with the basic principles involved in the mode of action of ionizing ultraviolet, and solar radiation and general survey of their effects on biological systems. Principles; theory and use of detectors and counting instruments will be emphasized. Prerequisite: General Physiology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

425. BACTERIAL PHYSIOLOGY. A review of current knowledge of bacterial growth and reproduction considered at the molecular level. Study of cellular structure, growth-kinetics, the synthesis of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation. Prerequisites: Microbiology and General Physiology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

426. VIROLOGY. A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation. Prerequisite: Microbiology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

427. MYCOLOGY. A study of the ecology, physiology and systematics of micro-fungi with emphasis on those forms which are of industrial or general economic importance. Prerequisite: Microbiology.

Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

430. BIOLOGY SEMINAR. Designed to introduce the student to research techniques, biological publications, manuscript writing methods of biological research, and recent advances in biological sciences. Students will be required to conduct independent investigations and to report the results obtained. Prerequisites: Junior or Senior Standing. One quarter hour. Fall, Winter and Spring. Credit, one quarter hour.

431. INTRODUCTION TO RESEARCH. Well prepared senior Biology majors may be permitted to carry on independent study upon the recommendation of the instructor under whom the student wishes to work. The recommendation must have the approval of the Head of the Biology Department. Prerequisite: Senior Standing. Two class hours. Fall, Winter, Spring. Credit, two quarter hours.

435. BSCS LABORATORY WORKSHOP. A course designed especially for junior level prospective teachers of Biology. A comprehensive study of the blue, green and yellow version of BSCS high school biology. Laboratory experiences will include utilization of actual BSCS materials and apparatus. Prerequisite: Junior Standing. Fall. Credit, eight quarter hours.

440. SENIOR RESEARCH. Senior majors having demonstrated exceptional potential in Introduction to Research may be permitted to conduct relatively independent research. Acceptance requires a recommendation from the instructor under whom the student wishes to work and approval by the Head of the Biology Department. Prerequisite: Senior Standing. Fall, Winter, Spring. Credit, three quarter hours.



Department of Mathematics, Physics and Computer Science

JOHN B. CLEMMONS, *Head*

Venkataraman Ananthanarayanan
Jacquelyn M Byers*
Willie S. Black
Kailash Chandra
Gian Ghuman
Sigmund S. Hudson
Johnny L. Houston

Jacob Engelhardt
Prince A. Jackson
Charles D. Lahr*
Walter W. Leftwich
LeRoy Michael
Dorothy D. Smith
George Thomas

The aims of the Department of Mathematics and Physics are: (1) to offer all students an opportunity for acquiring those basic skills which are needed for successful living, together with an appreciation of the contributions of these sciences to the cultural heritage; (2) to equip students in business administration and the natural and technical sciences with the means of developing logical thought procedures and insight into physical laws-all of which constitute essential tools in the several fields; (3) to provide training through advanced courses for students preparing to undertake the study of science, engineering, and those planning to enter graduate school; and (4) to assure adequate preparation in both content and instructional skills for prospective teachers in the secondary school.

The Department offers a major in Mathematics for students who are interested in work with industry or government service. In addition, majors for students interested in teaching are offered in Mathematics Education, Earth Science Education and Physics Education. The Department also offers minors in Mathematics, in Computer Science, and Physics, as outlined below.

Mathematics Minor:

Mathematics 107, 108, 212, 213	25 hours
Mathematics Electives	5 hours

Physics Minor:

Physics 201, 202, 203	15 hours
Physics 410	4 hours
Physics Electives	10 hours
(Chosen from: Physics 306, 307, 308, 310, 312, 499)	

*On Leave

Computer Science Minor for Students with Math - Science Major:
 Mathematics 200, 201, 250, 251, 413 21 hours
 Computer Science Electives 10 hours
 (Chosen from Mathematics 270, 303, 360, 370)

Computer Science Minor for Students with Business Major:
 Mathematics 200, 201, 260, 261, 250, 270, 380 31 hours

Computer Science Minor for Students with Other Majors:
 Mathematics 108, 200, 201, 210, 250, 303, 270 31 hours

It is preferable that the Physics minor be taken in combination with a major requiring at least 10 quarter hours of chemistry, 5 quarter hours of college algebra, 5 quarter hours of trigonometry and 10 quarter hours of differential and integral calculus. The minor should begin with Physics 201.

In cooperation with Howard University, a major in Physics has also been proposed. A student with a minor in Physics will receive a degree of Bachelor of Science with a major in Physics after taking six upper level physics courses at Howard University in one semester and two summers (ten weeks each).

Mathematics Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 Quarter hours exclusive of physical education

Area I. - Humanities - 20 hours required
 Humanities 107-108-109 15 hours
 Humanities 232 5 hours

Area II. - Mathematics and Natural Science - 20 hours required
 Mathematics 107, 108, 109 5-10 hours

Physics 201-202	10 hours
Biology 123	5 hours
or Physical Science 203 or 204	5 hours
Area III. - Social Science - 21 hours	
Social Science 114	1 hour
Social Science 101	5 hours
Political Science 200	5 hours
Economics 201	5 hours
History 200	5 hours
Area IV. - Courses Appropriate to Major - 30 hours	
Math 200	5 hours
Math 212-213-214	15 hours
Humanities 233	5 hours
Social Science 201	5 hours
Physical Education.....	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 Quarter Hours

Mathematics 35 hours

Math 315, 316, 321, 404 and 411	25 hours
Selected upper level mathematics courses	10 hours
Minor	30 hours

OTHER COURSES AND ELECTIVES - 35 Hours

Physics 203	5 hours
Modern Language	15 hours
Electives	15 hours

Mathematics Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 90 Quarter hours exclusive of physical education

Area I. - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. - Mathematics and Natural Science - 20 hours required

Math 107-108	5-10 hours
or 108-109	5-10 hours
Physics 201-202	10 hours
Biology 123	5 hours
or Physical Science 203 or 204	5 hours

Area III. - Social Science - 21 hours required

Social Science 114	1 hour
Social Science 101	5 hours
Political Science 200	5 hours
Economics 201	5 hours
History 200	5 hours

Area IV. - Courses Appropriate to Major - 30 hours required

Math 212-213-214	15 hours
Education 216	5 hours
Humanities 233	5 hours
Social Science 201	5 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 100 Quarter Hours

MATHEMATICS - 45 Hours (To include 15 hours from Area IV)

Math 315,316,321,404	20 hours
Math 318 or 319 or 320	5 hours
Math 409 or 410 or 411	5 hours

EDUCATION COURSES - 37 Hours

Education 303,304,317,429,430	37 hours
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ELECTIVES - 33 Hours

Social Science 114	1 hour
Physics 203, 204	10 hours
Math 250, 303	10 hours
Electives	12 hours

EARTH SCIENCE EDUCATION

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I. - Humanities - 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. - Mathematics and Natural Sciences - 20 hours required

Mathematics:

Mathematics 107-108	10 hours
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Natural Sciences:

Chemistry 101-102	10 hours
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Area III. - Social Sciences - 21 hours required

Social Sciences 102,114,201	11 hours
Political Science 200 and History 200	10 hours

Area IV. - Courses Appropriate to the Major - 30 hours required

Physical Science 204	5 hours
Physics 201-202 or 203	10 hours
Earth Science 221, 223	10 hours
Biology 128	5 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Earth Sciences: 28 hours required

Earth Science 300,320,404,420,440,490,499	28 hours
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Cognates: 28 hours required as specified below:

Chemistry 303, 307	10 hours
Earth Science Electives	8 hours
Biology 306	5 hours
Mathematics 212	5 hours

Education Courses: 42 hours required as specified below:

Education 216,303,304,317,429,430	42 hours
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Total quarter hours required for graduation = 195 hours

PHYSICS EDUCATION

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education.

Area I. - Humanities - 20 hours required.

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. - Mathematics and Natural Sciences - 20 hours required.

Mathematics 107-108	10 hours
Chemistry 101-102	10 hours

Area III. - Social Sciences - 21 hours required.

Social Sciences 101-102-114	11 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV. - Courses Appropriate to the Major - 30 hours required.

Physics 201-202-203	15 hours
Chemistry 103 or Biology 128 or Math 200	5 hours
Mathematics 212-213	10 hours

Physical Education

6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours.

Physics: 24 hours required

Physics 310	5 hours
Physics 306,307,308,312	12 hours
Physics 410	4 hours
Physics 499	3 hours

Cognates: 32 hours required as specified below.

Mathematics 250	5 hours
Mathematics 404 or Chemistry 305 or Earth Science 320 or Biology 309	5 hours
Chemistry 307, Chemistry 308, Biology 301, Biology 302 10 hours	
Electives (Major or Minor)	12 hours

EDUCATION COURSES: 42 hours required as specified below.	
Education 216,303,304,317,429,430	42 hours
Total quarter hours required for graduation	195 hours

DESCRIPTION OF COURSES

MATHEMATICS

106. BASIC MATHEMATICS. A basic requirement for students who do not achieve satisfactorily on the placement examination. The number systems; measurements; equations; formulas; verbal analyses of problems; measurements; of angles, triangles, circles and polygons. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

107. COLLEGE ALGEBRA AND TRIGONOMETRY I. This course presents certain topics in algebra and trigonometry in a form that will make them most useful for a later study of analytic geometry and calculus. The system of real numbers, functions, exponential and logarithmic functions, the trigonometric functions, complex numbers. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

108. COLLEGE ALGEBRA AND TRIGONOMETRY II. The complex numbers, the theory of equations, systems of equations, permutations and combinations, the binomial theorem and probability, sequences, inverse functions and trigonometric equations. Prerequisite: Mathematics 107. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

109. PLANE ANALYTIC GEOMETRY. Elementary concepts of plane analytic geometry; the locus derivation and the straight line; introduction to curve sketching; conics, transcendental curves; polar coordinates; parametric equations. Prerequisites: Mathematics 107, 108. Five class hours a week. Fall and Winter. Credit, five quarter hours.

212. ANALYSIS I. (Analytic Geometry and Differential Calculus.) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. Prerequisites: Mathematics 107 and 108. Five class hours a week. Fall. Credit, five quarter hours.

213. ANALYSIS II. (Analytic Geometry and Integral Calculus.) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. Prerequisite: Mathematics 212. Five class hours a week. Winter. Credit, five quarter hours.

214. ANALYSIS III. (Advanced Topics in Calculus.) Introduces the student to the rigor of the calculus and related topics in analysis. Vectors, the law of the mean, indeterminate forms, partial derivatives, lines and planes in space, multiple integrals, infinite series, ordinary differential equations. Prerequisites: Mathematics 212 and 213. Five class hours a week. Spring. Credit, five quarter hours.

217. INTRODUCTION TO PROBABILITY AND STATISTICS. The frequency distribution; central tendencies or averages; variability; the frequency curve; correlation; use of tabular and graphic methods of reporting facts; interpreting statistical data. Five class hours a week. Spring. Credit, five quarter hours.

311. MATHEMATICS OF FINANCE. Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns. Five class hours a week. Fall. Credit, five quarter hours.

315. MODERN ALGEBRA. Basic concepts (sets, ordered pairs, product and relations, functions and mapping, binary operations, abstract systems, etc.), the number systems, decompositions of integers, Diophantine problems, congruence, permutations. Five class hours a week. Fall. Credit, five quarter hours.

316. MODERN ALGEBRA. Designed to develop further topics in modern algebra. Group rings, domain, fields, polynomial rings, Galois theory. Five class hours a week. Winter. Credit, five quarter hours.

318. ADVANCED PROBABILITY. Extension of topics introduced in Mathematics 217, with applications in such fields as education, economics, and finance. Topics include study of sets, probability in finite sample spaces, random variables, binomial distribution and applications, estimating and testing variability, analysis of variance, and decision theory. Prerequisite: Mathematics 217. Five class hours a week. Fall. Credit, five quarter hours.

319. LINEAR ALGEBRA. (Formerly 406.) Vectors in the space and in the plane; linear dependence of vectors; vectors over the complex field; geometry of the real vector space; transformation relative to different bases; vector spaces over the complex field. Prerequisites: Mathematics 214 and 315. Five class hours a week. Winter. Credit, three or five quarter hours.

320. THEORY OF EQUATIONS. Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants—systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra. Five class hours a week. Credit, three or five quarter hours.

321. INTRODUCTION TO HIGHER GEOMETRY. Designed to give a “modern view” of geometry which includes a critical study of Euclidean geometry treated from an axiomatic viewpoint as well as the study of nonEuclidean postulational systems. Five class hours a week. Winter. Credit, five quarter hours.

399. ARITHMETIC FOR ELEMENTARY SCHOOL TEACHERS. Designed to give the prospective teacher substantial knowledge of arithmetic, teaching aids, and practice in modern methods of teaching the subject. Terms used in arithmetic; the four fundamental operations, common and decimal fractions. Five class hours a week. Spring. Credit, five quarter hours.

400. MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS. Recent trends in elementary school mathematics. Emphasis on logic, critical thinking, and development of the number system. Review of the fundamentals of arithmetic; visual aids in the teaching of arithmetic. Five class hours a week. Spring. Credit, five quarter hours.

401. TESTING AND STATISTICAL ANALYSIS FOR TEACHERS. Designed to give teachers in all fields essential knowledge of tests, experience in administering tests, and practice in evaluating test results according to current standards. Five class hours a week. Winter. Credit, five quarter hours.

402. MODERN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS. Modern trends in Mathematics curricula, number bases, modular arithmetic, mathematical systems, empirical probability, basic definitions of sets, the use of sets in elementary algebra, the use

of deductions in algebra, an introduction to abstract algebra, geometry for junior high schools, structure of a first course in geometry, number scales and perspective, topology. Five class hours a week. Spring. Credit, five quarter hours.

404. DIFFERENTIAL EQUATIONS. Differential equations-orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order; linear differential equations of the second order with constant coefficients; compound interest law; applications to problems in mechanics; linear differential equations of the n th order with constant coefficients. Prerequisites: Mathematics 212 and 213. Five class hours a week. Spring. Credit, five quarter hours.

409. GENERAL POINT SET TOPOLOGY. Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves, partitionable spaces, and the axiom of choice. Five class hours a week. Spring. Credit, five quarter hours.

410. INTRODUCTION TO REAL VARIABLE THEORY. This course is designed to provide experiences in the Theory of Dedekind cuts, the existence of g.l.b. and l.u.b. sequences of numbers and various theorems. Topics include numbers and convergence, topological preliminaries, limits, continuity and differential ability, the Riemann Integral, sequences and series, functions of several real variables. Five class hours a week. Winter. Credit, five quarter hours.

411. ADVANCED CALCULUS. Fundamentals (Dedekind's and Cantor's theories, Balzona-Weierstrass theorem, functions of real variable, etc), sequence, limits and metric space, continuous functions on metric spaces, Heine-Borel theorem, connectedness, compactness and completeness, differentiability and integrability. Prerequisites: Mathematics 213 and 214. Five class hours a week. Spring. Credit, five quarter hours.

420. HISTORY OF MATHEMATICS. Development of the science of numbers; trends in mathematics. Five class hours a week. Fall. Credit, three or five quarter hours.

498. NEWTONIAN SEMINAR. This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and Seniors. Fall, Winter, and Spring. Credit, two quarter hours.

499. MATHEMATICAL RESEARCH. This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. Fall, Winter, and Spring. Credit, one to three quarter hours.

EARTH SCIENCE

221. EARTH SCIENCES. Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Lecture three hours, lab. four hours. Prerequisites: Advanced standing and some knowledge of physics and chemistry. (May be used to satisfy elective units in general science, general education and teacher education.) Credit, five quarter hours.

223. ASTRONOMY AND SPACE SCIENCE. Historical development of astronomy; the tools and methods of the astronomer; the earth, the moon and the solar system. Stellar systems, galaxies and cosmology. History of space exploration, space flight and earth's environment. Space propulsion systems, life-support systems, and space applications. Three class hours and two two-hour laboratory periods a week. Spring quarter. Credit, five quarter hours.

300. PRINCIPLES OF GEOLOGY. Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps, and historical aspects of geology. Lecture three hours, laboratory two two-hour periods. No prerequisite. (May be used to satisfy the elective units in general education or teacher education.) Winter quarter. Credit, five quarter hours.

310. MINERAL RESOURCES. A study of formation of various minerals in the earth's environment and mineral deposits. Minerals in relation to soil development, nutrient availability, and topography. Three class hours a week. Prerequisite: None. Credit, three quarter hours.

320. INTRODUCTION TO METEOROLOGY. The atmosphere, its composition and density. Heating of land and water; air in motion

and its circulation patterns. Role of atmospheric temperature, pressure and humidity distribution; fog and clouds. Thunderstorms, tornadoes and hurricanes. Prerequisites: Physics 201-202. Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.

400. STRATIGRAPHY. Description and genesis of stratified sedimentary rock units. Relationships between the lithology and geometry of these rock units and the tectonic setting. Principles of geologic mapping. Lecture, three hours, laboratory, four hours a week. Prerequisite: Geology 300. Credit, five quarter hours.

404. MARINE AND ENVIRONMENTAL GEOLOGY. Geophysical techniques for exploration of the sea floor. Pelagic and Abyssal plain sediments. Igneous rocks and the structure of the ocean basins. Polar wandering and continental drift. Earth processes. Engineering properties of rocks and soils. Earth resources. Geologic consequences of industrialization. Conservation and Management. Three class hours and two two-hour laboratory periods a week. Prerequisite: Geology 300. Fall quarter. Credit, five quarter hours.

406. STRUCTURAL GEOLOGY. Introductory description of the structural features of rocks and their analysis. Deformation of the earth's crust during tectonic and metamorphic activity. Two lectures and one two-hour laboratory period a week. Prerequisite: Geology 300 or equivalent. Credit, three quarter hours.

408. GEOMORPHOLOGY. Sculpture of the earth's surface by natural processes. Weathering sequence, erosion and development of soil profile. Surficial processes and the evolution of land forms. Two class hours and one two-hour laboratory period a week. Prerequisites: Geology 300 and Geology 406. Credit, three quarter hours.

410. PETROLOGY AND PETROGRAPHY. Composition, distribution and origin of rocks. Laboratory examination of common igneous, metamorphic and sedimentary rocks; use of petrographic microscope, study of metamorphic zoning, and physical and mineralogical analysis of sediments. Lecture three hours, laboratory two two-hour periods. Prerequisite: Geology 300. Credit, five quarter hours.

420. WEATHER AND CLIMATE. Why winds blow. Moisture in the atmosphere. Radiation; stability. Winds and pressure. The general circulation. Weather maps. Extratropical cyclones and waves. Interrelationships among the physical processes of weather. Weather and

man. Climatic change. Prerequisite: Introduction to Meteorology 320. Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.

425. INTERACTIONS OF GLOBAL ENVIRONMENT. Man's activities affecting the equilibrium of atmosphere, hydrosphere, biosphere, and lithosphere. Discussion of natural cycles such as the energy cycle; the water cycle; the carbon cycle; the oxygen cycle; the nitrogen cycle and the phosphorus cycle. Preservation of man's healthy environment. Prerequisites: Chemistry 101-102 and Geology 300 or equivalent. Three class hours and one two-hour laboratory period a week. Credit, four quarter hours.

430. INTRODUCTION TO GEOPHYSICS. Origin of the earth and solar system. Earth's interior and its physical parameters. Geochronology. Heat flow, seismicity, gravity field, magnetic field and paleomagnetism. Physics of the upper atmosphere. Continental drift. Prerequisites: Geology 300 and Physics 201-202. Three lectures and one two-hour laboratory period. Credit, four quarter hours.

440. INTRODUCTION TO GEOCHEMISTRY. Chemical principles of geological processes. Origin and distribution of chemical elements and isotopes in the earth, its waters and atmosphere. Age of the earth and crustal evolution. Phase transformations at pressures and temperatures found in the earth's interior and the surface. Lecture three hours and laboratory one two-hour period. Prerequisites: Chemistry 101-102, Geology 300 and junior or senior standing. Credit, four quarter hours.

490a-490b. SPECIAL PROBLEMS IN EARTH SCIENCES. Study of literature, laboratory or field investigation of a selected topic and presentation of a written report or in the form of a seminar. Prerequisite: Junior or senior standing. Credit, one quarter hour each.

499. RESEARCH IN EARTH SCIENCES. Laboratory and field investigation of a selected research problem and preparation of a written report. Prerequisite: Junior or senior standing. Credit, two quarter hours.

PHYSICAL SCIENCE

203. PHYSICAL SCIENCE. A concise course for students who elect two courses in biological science and one course in physical

science to satisfy the general science requirement for graduation. Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.

204. PHYSICAL GEOGRAPHY. The Earth in Space, its form, the geographic grid, and map projections. Atmosphere, oceans, ocean tides, and the eclipses, climate, soils and vegetation. Temperature; latitude; Heat budget of the earth. The earth's crust and its relief forms. Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.

PHYSICS

201. GENERAL PHYSICS. An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Students enrolled in this course should have command of algebra and trigonometry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

202. GENERAL PHYSICS. Wave phenomena as sound and light are investigated. Prerequisite: Physics 201. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

203. GENERAL PHYSICS. Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: Physics 201. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

306. ADVANCED MECHANICS AND HEAT*. Prerequisites: Mathematics 212, 213. Two class hours and two two-hour laboratory periods a week. Fall. Credit, four quarter hours.

307. ILLUMINATION AND OPTICS*. Prerequisites: Mathematics 212, 213. Two class hours and two two-hour laboratory periods a week. Winter. Credit, four quarter hours.

308. MAGNETIC AND ELECTRICAL MEASUREMENTS.* Prerequisites: Mathematics 212, 213. Two class hours and two two-hour laboratory periods a week. Spring. Credit, four quarter hours.

310. MATHEMATICAL PHYSICS. (Formerly Physics 300.) Designed to develop an understanding of the concrete relationship between those factors that contribute to various particular phenomena; qualitative and quantitative relationships. Prerequisites:

Mathematics 212, 213, 404. Five class hours a week. Credit, five quarter hours.

312. INTRODUCTION TO ELECTRONICS. Testing basic components of electronic circuits—tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc.; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes tube testers, field strength meters, etc. Two class hours and two (or three) two-hour laboratory periods a week. Credit, four (or five) quarter hours.

410. MODERN PHYSICS. Recent advances in atomic and nuclear physics. Prerequisites: Calculus, six to ten quarter hours; advanced physics, four or more quarter hours, and Mathematics 212, 213. Four class hours a week. Fall. Credit, four quarter hours.

499. INTRODUCTION TO RESEARCH IN PHYSICS. The student will be introduced to the techniques and procedures used in Physics research problems and initiated in the examination of literature. Credit, two to three quarter hours. Prerequisite: Junior standing in Math and Physics and consent of the supervising instructor.

COMPUTER SCIENCE

200. INTRODUCTION TO COMPUTER SCIENCE. A study of the background and basic concepts of the computer and its use. An introduction to the fundamentals of programming in BASIC via the terminal, and an introduction to the creation and manipulation of files. Prerequisite: Math 107 or equivalent. Credit, three quarter hours.

201. COMPUTERS IN SOCIETY. No mathematical background required. An introduction to the history and evolution of the computer, and to the use of the computer in helping man to solve problems. A consideration of some of the ways in which the computer influences social organizations and individuals. No Prerequisite. Credit, three quarter hours.

210. COMPUTER METHODS FOR HUMANISTIC PROBLEMS. No mathematical or scientific background presumed. An introduction to elementary digital programming in an appropriate language with emphasis on utilizing existing “library” programs to solve problems arising in the humanities and social sciences. The class is divided into interest-groups from all areas of the humanities and social sciences, with each group solving problems related to its discipline. Prerequisite: Math 201. Credit, five quarter hours.

250. COMPUTER PROGRAMMING IN A NUMERICAL LANGUAGE I. An introduction to numerical calculations with, and methods of treatment of experimental data. A complete introduction to FORTRAN Programming is included. Applications and order of treatment are chosen to illustrate the various major programming constructions as they arise. Prerequisites: Math 108, Math 200. Credit, five quarter hours.

251. COMPUTER PROGRAMMING IN A NUMERICAL LANGUAGE II. Extension of the subject matter covered in Math 250 to include subprograms and arrays. Scientific Packages are introduced and used. Computer concepts are used to solve problems arising in the various scientific disciplines. Prerequisite: Math 250. Credit, five quarter hours.

260. COMPUTER PROGRAMMING IN A BUSINESS LANGUAGE I. An introduction to data processing of card files. A complete introduction to COBOL is included. This course is intended for business-oriented students. Applications will be in the areas of business and administrative data processing. Prerequisite: Math 200. Credit, five quarter hours.

261. COMPUTER PROGRAMMING IN A BUSINESS LANGUAGE II. Extension of the subject matter covered in Math 260, to include creation and processing of data files on a random access device. Prerequisite: Math 260. Credit, five quarter hours.

270. SIMULATION AND COMPUTATIONAL STATISTICS. The computer will be used as a tool to implement various probabilistic and statistical concepts, to include an introduction to simulation techniques. Prerequisite: Math 250. Credit, five quarter hours.

303. METHODS AND MODELS. Mathematical concepts, notations, and methods commonly used in the social and behavioral sciences, with emphasis on real problem solving. This course is an analogue to Math 210, except that the emphasis is upon the student creating his own programs to solve specific problems. This should be considered a course for juniors or seniors. Prerequisite: Math 250. Credit, five quarter hours.

360. COMPUTER PROGRAMMING IN A MACHINE LANGUAGE. This course emphasizes the relationship between computer hardware and software as exhibited by the assembly language. Topics include: concepts and properties of an logarithm, computer

structure and flow of control; instructional codes; various OP codes; pseudo OPs, macros; Input-output; subroutines. Prerequisite: Math 251, or Math 261. Credit, five quarter hours.

370. SCIENCE AND ENGINEERING MATHEMATICS. A study of computer-generated solutions to problems arising in the technical and physical sciences. Topics include: sequences; functions and derivatives; differential equations, logarithms and exponential functions. Prerequisites: Math 250, Math 212. Credit, five quarter hours.

380. LINEAR PROGRAMMING. A consideration of various optimization problems from the fields of business and finance that have Linear Programming formulations; emphasis is on computer techniques for solving these problems. Prerequisite: Math 250. Credit, five quarter hours.

413. NUMERICAL ANALYSIS. Topics to be selected from: solving systems of linear equations; Gauss-Seidel and Jacobi methods; error analysis; approximating functions by infinite series; iteration techniques, techniques of integration, to include trapezoidal and Simpson's rules. Prerequisites: Math 251, Math 213. Credit, five quarter hours.

Department of Chemistry

WILLIE G. TUCKER, *Head*

Jeffrey James

Manchery P. Menon

Kamalakar B. Raut

George N. Williams

The work in the Department of Chemistry is intended to serve four purposes: (1) to provide a thorough foundation in the general courses for students who seek an understanding of the methods and achievements of the chemist; (2) to include the needed semispecialized preparation for students who are majoring in home economics and engineering technology; (3) to afford training for persons who plan to teach science in the secondary school; and (4) to include preprofessional training for students who intend to study dentistry, medicine, and the like, and for those who plan to enter graduate school.

The Department of Chemistry offers the usual general courses, a minor sequence, and courses leading to the degree of Bachelor of Science with a major in chemistry.

Chemistry Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities - 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107-108	10 hours
Biology 123-124	10 hours

Area III - Social Science - 21 hours required

Social Science 114	1 hour
Social Science 101-102	10 hours
Political Science 200	5 hours
History 200	5 hours

Area IV - Courses Appropriate to the Major - 30 hours required

Chemistry 101-102-103	15 hours
Mathematics 109-212-213	15 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 99 quarter hours

Chemistry

Analytical Chemistry 303-304-305	14 hours
Organic Chemistry 307-308-309	15 hours
Organic Preparations 313-409-410	3 hours
Introduction to Chemical Research 311-406	2 hours
Physical Chemistry 401-402-403	12 hours
Biochemistry 404-405	8 hours
Biochemical Preparations 406	2 hours
Chemical Seminar 408	3 hours
Chemical Literature 415	1 hour

Additional Requirements

Elementary German 151-152-153	15 hours
Humanities 233-234	9 hours
Physics 201-202	10 hours
Mathematics Elective	5 hours

Chemistry Education

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities - 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107-108	10 hours
Biology 123-124	10 hours

AREA III - Social Science - 21 hours required

Social Science 114	1 hour
Social Science 102, 201	10 hours
Political Science 200	5 hours
History 200	5 hours

Area IV - Courses Appropriate to the Major - 30 hours required

Chemistry 101-102-103	15 hours
Mathematics 212-213	10 hours
Education 216	5 hours

Physical Education

SENIOR COLLEGE CURRICULUM:

Requirements: 99 quarter hours

Chemistry

Analytical Chemistry 303-304	10 hours
Organic Chemistry 307-308.....	10 hours
Physical Chemistry 401-402	10 hours

Education

Education 317	8 hours
Education 429	8 hours
Education 430	15 hours
Education 303-301	6 hours

Humanities

Humanities 233-234, 151-152	19 hours
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Physics

Physics 201-202 10 hours

Elective 3 hours

Medical Technology Curriculum

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities - 20 hours required

English 107-108-109 15 hours

Humanities 232 5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107 5 hours

Biology 126-127 (Invertebrate Zoology-Vertebrate Zoology)....
10 hours

Elective: Either (Biology 200-201-202 or 203) 5 hours

Area III - Social Sciences - 21 hours required

Social Science 114 1 hour

Social Science 101-102 10 hours

Political Science 200 5 hours

History 200 5 hours

Area IV - Courses Appropriate to the Major - 31 hours required

Chemistry 101-102-103 15 hours

Biology 123-124 10 hours

Mathematics 108 5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 61 quarter hours in addition to 52 weeks of hospital clinical laboratory training.

Chemistry

Organic Chemistry 307-308 10 hours

Biochemical Analysis 305 5 hours

Analytical Chemistry 303-304 10 hours

Chemical Seminar 312 1 hour

Chemical Literature 412 1 hour

Additional Academic Requirements

Biology 306	5 hours
Humanities 151-152-153	15 hours
Humanities 233-234	9 hours
Social Science 201	5 hours

Clinical Laboratory Training

52 weeks of study and practical experience in an accredited hospital laboratory.

DESCRIPTION OF COURSES

101. GENERAL INORGANIC CHEMISTRY. An introduction to the fundamental principles of chemistry including laws of chemical change, properties of gases, stiochiometry, atomic structure, chemical bonding, periodic properties of elements, electrochemistry and chemical equilibrium. Laboratory experiments are designed to supplement class room lectures. Four class hours and one three-hour laboratory a week. Fall, winter and summer. Credit, five quarter hours.

102. GENERAL INORGANIC CHEMISTRY. This course is a continuation of chem. 101 and it includes a broad and general discussion of the chemistry of metals and non-metals, study of the properties of solutions, chemical kinetics, coordination compounds and the properties of liquids and solids. Basic concepts of organic chem. nuclear chemistry and biochemistry are discussed. Four class hours and one three-hour laboratory a week. Winter, spring and summer. Credit, five quarter hours.

103. GENERAL INORGANIC CHEMISTRY. Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. Prerequisites: Chemistry 101-102. Two class hours and three three-hour laboratory periods a week. Fall and spring. Credit, five quarter hours.

104. GENERAL INORGANIC CHEMISTRY. This course is designed for biology major whose curriculum requires only two quarters of general chemistry. The course will cover certain topics of chem. 102 such as the properties of solutions chemical equilibrium and also those of chem. 103 dealing with the theory and method of qualitative analysis. Emphasis is placed more on laboratory work than on class room experience. Two class hours and three three-hour laboratory periods. Winter and summer. Credit, five quarter hours.

115. **CHEMICAL CALCULATION.** An introduction to the use of mathematics in chemistry. One class hour a week. Winter. Credit, one quarter hour.

303. **ANALYTICAL CHEMISTRY.** Theory and practice of volumetric methods of analysis. Aqueous acid-base titrations, acid-base reaction in nonaqueous solvents, complexometric titrations, oxidation and reduction. Prerequisites: Chemistry 101, 102, 103. Three class hours and two three-hour laboratory periods a week. Fall. Credit, five quarter hours.

304. **ANALYTICAL CHEMISTRY.** Gravimetric methods of analysis involving quantitative separation by volatilization, and quantitative precipitation processes. Prerequisite: Chem. 103, 303. Three class hours and two three-hour laboratory periods a week. Winter. Credit, five quarter hours.

305. **INSTRUMENTAL METHODS OF ANALYSIS.** This course covers the theory, techniques and methods of analysis using modern instruments. Potentiometric, conductometric, spectrophotometric (including infrared), polarographic, and chromatographic methods of analysis are practiced in the laboratory. Two class hours and two three-hour laboratory periods a week. Winter. Credit, four quarter hours.

307. **ORGANIC CHEMISTRY.** Preparation, tests, and properties of carbon compounds. Aliphatic compounds are emphasized. Prerequisites: Ten quarter hours of college chemistry. Three class hours and two three-hour laboratory periods a week. Fall and summer. Credit, five quarter hours.

308. **ORGANIC CHEMISTRY.** Continuation of Chemistry 307, with emphasis on carbocyclic and heterocyclic compounds. Prerequisite: Chemistry 307. Three class hours and two three-hour laboratory periods a week. Winter and summer. Credit, five quarter hours.

309. **QUALITATIVE ORGANIC ANALYSIS.** The chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating and identifying them. Prerequisites: Chemistry 308, 307. Two class hours and three three-hour laboratory periods a week. Spring. Credit, five quarter hours.

310. **THE CHEMISTRY OF TEXTILES.** The chemical make-up of certain natural and man-made fibers is studied. Prerequisite:

Chemistry 307. Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.

331. BIOPHYSICAL CHEMISTRY. This course is designed for pre-medical students and students in biological sciences or related disciplines. General topics of discussion in the course are colligative properties of solutions, thermodynamics, rates and mechanism of enzyme-catalyzed reactions, colloids and transport phenomena in liquids. Prerequisites: junior standing. Four class hours and one three-hour laboratory a week. Winter and summer. Credit, five quarter hours.

350. BIOCHEMICAL ANALYSIS. Chemistry of biochemical substances such as carbohydrates, proteins, fats, enzymes and vitamins with special emphasis on the laboratory techniques of identification and analysis of these substances. Prerequisites: Chemistry 307, 308. Three class hours and two three-hour laboratory periods a week. Fall and summer. Credit, five quarter hours.

401. PHYSICAL CHEMISTRY. Study of the behavior of gases, gas laws, kinetic theory of gases, thermochemistry, thermodynamics and homogeneous and heterogeneous chemical equilibria. Application of physical principles to the solution of chemical problems is highly emphasized. Prerequisite: Math 212-213, Phy, 201-202. Three class hours and one three-hour laboratory period a week. Fall. Credit, four quarter hours.

402. PHYSICAL CHEMISTRY. This is a continuation of chem. 401 and includes such topics as atomic and molecular structure, quantum theory, chemical bonding, phase equilibria and properties of solutions. Prerequisite: Chem. 401. Three class hours and one three-hour laboratory period a week. Winter. Credit, four quarter hours.

403. PHYSICAL CHEMISTRY. This course, a continuation of Chem. 402, deals with chemical kinetics, electrochemistry, phase rule, surface chemistry and also the properties of solids and liquids. Prerequisite: Chem. 402. Three class hours and one three-hour laboratory period a week. Spring. Credit, four quarter hours.

404. BIOCHEMISTRY. The chemistry of carbohydrates, lipids, proteins, mineral elements and water. Prerequisite: Chemistry 307. Three class hours and two three-hour laboratory periods a week. Fall and Spring. Credit, five quarter hours each quarter.

405. BIOCHEMISTRY. Chemistry of vitamins, enzymes, hormones and mechanisms of digestion and animal and plant metabolism

will be studied. Prerequisite: Chemistry 404. Three class hours a week. Winter. Credit, three quarter hours.

406. **BIOCHEMICAL PREPARATIONS.** Isolation and identification of compounds from natural products and synthesis of compounds with possible biochemical importance. Prerequisite: Chem. 307 or 404. One three-hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.

311-407. **INTRODUCTION TO RESEARCH IN CHEMISTRY.** Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. Prerequisite: Junior standing in chemistry and consent of the staff. One three-hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.

312-408. **CHEMICAL SEMINAR.** Modern developments in specific subdivisions of the field of chemistry are considered. Prerequisite: Junior or senior standing. one class hour a week. Credit, one quarter hour each.

313-409-410. **ORGANIC PREPARATIONS.** Selected synthesis, and name reactions. Prerequisites: Chemistry 307, 308. One three hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.

411. **RADIOISOTOPE TECHNOLOGY.** This course will provide a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also include a study of the many applications of radioisotopes in chemistry, biology, geology, etc. Prerequisite: Junior standing in the major field. Three class hours and one three-hour laboratory period a week. Winter quarter. Credit, four quarter hours.

415. **CHEMICAL LITERATURE.** This course covers the use of the library in general and the procedure to obtain chemical information in particular by referring to abstracts and journals; numerous library assignments are given in the course. One class hour a week. Spring. Credit, one quarter hour.

DIVISION OF NAVAL SCIENCE

VIRGIL V. McGEE, CMDR, USNR, *Chairman*

Ralph N. Churchwell, III, Lt. Cmdr., USN

Clarence E. Thrasher, Capt., USMC

Richard A. Kren, Lt., USN

Ollie V. Buckner, Lt., USN

Joseph P. McLoskey, MSgt., USMC

Leo P. Lambert, QMC.(SS), USN

The Naval Reserve Officers' Training Corps academic program is designed to prepare selected students for commissioned service as regular or reserve officers in the Navy or Marine Corps.

In support of this purpose the basic and primary mission of the NROTC program is as follows:

To develop Midshipmen morally, mentally and physically and to imbue them with the highest ideals of duty, honor and loyalty in order to commission college graduates as officers who possess a basic professional background, are motivated toward careers in the Naval Service and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship and government.

The primary objectives of the NROTC Program are to provide NROTC students with:

- (1) an understanding of the fundamental concepts and principles of naval science;
- (2) a basic understanding of associated professional knowledge;
- (3) an appreciation of the requirements for national security;
- (4) a strong sense of personal integrity, honor, and individual responsibility; and
- (5) an educational background which will allow the midshipman to undertake successfully in later periods of his career, advanced/continuing education in a field of application and interest to the Naval Service.

ORGANIZATION OF THE PROGRAM

The Naval Reserve Officers Training Corps academic program consists of six parts:

- (1) The academic Major Field of Study
- (2) Navy Specified College Courses
- (3) Naval Professional Academic Courses
- (4) Naval Professional Academic Courses for marine Option Students
- (5) Naval Professional Training
- (6) The Summer Training Programs

PROFESSIONAL EDUCATION

The objective of the naval professional academic courses and professional training portion of the NROTC academic program is to teach basic professional subject matter and to instill in each student those qualities essential to performance as junior naval officers. These qualities include the ability to exercise self-discipline, to organize time and effort effectively, to perform efficiently under stress, to think and react quickly with good judgement, and to consistently exhibit exemplary military bearing and appearance. Seniors are placed in position of command and find themselves calling upon all the leadership skills they have developed during their first three years of NROTC professional training. Thus, following this final year of practical experience, they find themselves well prepared to assume leadership responsibilities in the Navy or marine Corps as commissioned officers.

Midshipmen Curriculum Sequence

All Midshipmen	FRESHMAN YEAR			
EDN 100	Freshman Lectures	R		
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107-108	College Algebra & Trig	5	5	
NS 201-205	Ship Systems I & II		5	5
NS 101-109-103	Drill/Seminar	R	R	R
Required Major courses				

SOPHOMORE YEAR

NS 202-203-204	Drill/Seminar	R	R	R
*MATH 212-213	Analysis I-II	5	5	
*PHY 201-202-203	General Physics	5	5	5
Required major courses				

*Note: Required for Navy Scholarship Midshipmen only

NAVY OPTION JUNIOR YEAR

NS301	Navigation I	4		
NS 302	Navigation II		4	
NS 303	Naval Operations			3
NS 304-305-306	Drill	R	R	R
HIS 312	History of American Military Affairs			5
*BA301 or MATH 306	Computer Programming			5
Required major courses				

SENIOR YEAR

NS 401	Naval Organization/ Management		5	
NS 402-403-404	Drill/Seminar	R	R	R
PSC 314	National Security Policy		5	
Required major courses				

NOTE: Those students who choose the Marine Option Program will take the following courses during their last two years in lieu of the Navy sequence.

MARINE OPTION JUNIOR YEAR

NS 304-305-306	Drill	R	R	R
NS 311	Evolution of Warfare I	3		
NS 312	Evolution of Warfare II		3	
HIS 312	History of American Military Affairs			5
Required major courses				

SENIOR YEAR

NS 402-403-404	Drill/Seminar	R	R	R
NS 411	Amphibious Warfare I	3		
NS 412	Amphibious Warfare II		3	
PSC 314	National Security Policy		5	
Required major courses				

*Note: Required for Navy Scholarship Midshipmen only

DESCRIPTION OF COURSES

NS201. NAVAL SHIP SYSTEMS I: A course designed to familiarize students with the types, structure and purpose of naval ships. Ship compartmentation, propulsion systems, auxiliary power systems, interior communications, and ship control are included. Elements of ship design to achieve safe operations, and ship stability characteristics are examined.

NS 205. NAVAL SHIP SYSTEMS II: This course provides an introduction to the theory and principles of operation of naval weapons systems. It includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordnance.

NS 301-302. NAVIGATION. An introduction to piloting designed to convey the development of both the art and science of coastal navigation. Goals are to introduce and develop the methodology for the determination of accurate positioning, to survey the sundry instruments and navigation aids; to introduce the factors that influence the variance from the theoretical position to the actual position. To introduce the concept of relative motion and station keeping; to impart an understanding of the significance of the Rules of the Nautical Road with relation to safe navigation and international agreements. To show the relationship of the celestial sphere and nautical astronomy to the terrestrial system of coordinates, thereby contributing to position determination on the Earth. Three class hours and one lab hour each week. Fall and Winter quarters. Credit, four quarter hours each quarter. NS 301 is a prerequisite for NS 302.

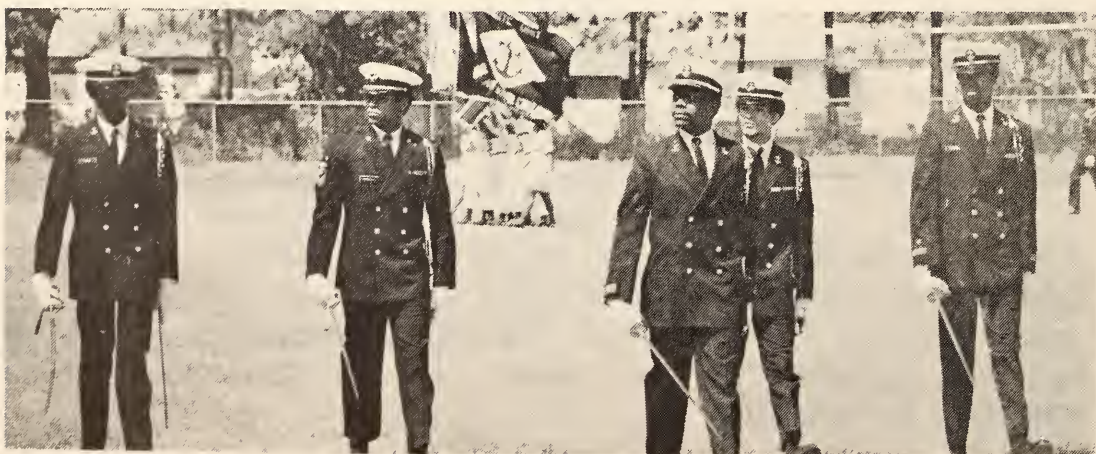
NS 303. NAVAL OPERATIONS. The principles essential for a fundamental understanding and a practical working capability in both safe navigation and decision making are investigated. The course is comprised of a detailed practical analysis of relative motion, the rudimentary theory of advanced electronic navigation systems, and an application of operations analysis for decision making. Three class hours per week. Spring Quarter. Credit, three quarter hours.

NS 101-102-103-202-203-204-304-305-306-402-403-404. NAVY DRILLS, SEMINARS. To teach basic military formations, movements, commands, courtesies and honors, and provide practice in unit leadership. Drill, personnel inspections, lectures, and discussions will be scheduled. One drill period per week. Fall, Winter, Spring Quarters. NO CREDIT.

NS 311-312. **EVOLUTION OF WARFARE.** Basic terms applicable to warfare are defined. Significant periods of conflict, extending from the ancient Near East to the present are studied. In exploring these eras, the technology of time, strategic alternatives, tactical innovations, naval activities, geographical factors and evolution of weaponry are examined. The techniques and effectiveness of the military leaders during the period are also studied. Three class hours per week. Fall and Winter quarters. Credit, three quarter hours each quarter. **MARINE OPTION.**

NS 401. **PRINCIPLES OF NAVAL ORGANIZATION AND MANAGEMENT.** An introduction to the structure and principles of naval organization and management. Naval organization and management practices and the concepts that lie behind them are examined within the context of American social and industrial organization and practice. It includes lines of command and control, organization for logistics, service and support, functions and services of major components of the Navy and Marine Corps, and shipboard organization. Emphasis is placed on management and leadership functions. Five class hours per week. Fall and Winter Quarters. Credit, five quarter hours.

NS 411-412. **AMPHIBIOUS WARFARE.** The objectives of amphibious expeditions during the 20th century are discussed. Gallipoli, the prime amphibious operation of World War I is studied in detail. Lessons learned during WWI and the evolution of amphibious doctrine during the 1920's and 1930's are covered. The application of these concepts is evaluated by studying major landings in the Pacific and European theaters of WWII. The continuous development of equipment and doctrine is traced to the present. Current military-staff planning policy, control techniques and coordination procedures for amphibious operations are studied. Three class hours per week. One hour of drill in the fall quarter. Fall and Winter quarters. Credit, three quarter hours each quarter. **MARINE OPTION.**



DIVISION OF SOCIAL SCIENCES

ELMER J. DEAN, *Chairman*

Benny Arkwright
Blanton E. Black
Annette K. Brock
Thomas H. Byers
Donald Cook
Lawrence Harris
Gaye H. Hewitt
Otis S. Johnson*
Isaiah McIver

Delacy W. Sanford
John E. Simpson
Ella H. Sims
Bill R. Stephenson
Merolyn Stewart
Steven Smith
Hanes Walton, Jr.
Eugene E. Welch
Virenda S. Yadav

Viola McKinney Elson K. Williams** Willie T. Yancey, Jr.*

Good citizenship is the supreme goal of the social sciences. To be able citizens, students should have knowledge of human and cultural backgrounds and relationships. This essential knowledge comes through study of history, economics, sociology, political science, and other social sciences.

The Division of Social Sciences contributes to the realization of good citizenship by fostering three aims of higher education: (1) assisting students to attain those competencies and attitudes essential to all persons in a world of interdependent relationships; (2) preparing students for advanced study in fields such as social work, sociology, history, political science, and criminal justice; and (3) preparing students for teaching the social studies in the secondary school.

THE CHOICE OF A MAJOR

In conformance with the foregoing aims this division provides six curricula. Curriculum One leads to the B.A. Degree in history. Curriculum Two leads to the B.A. Degree with a concentration in sociology; Curriculum Three leads to the B.S. Degree in Criminal Justice. Curriculum Four leads to the B.S. Degree in Political Science. Curriculum Five leads to the B.A. Degree in Social Work.

The program for persons who plan to teach social studies in the secondary school is Curriculum Six.

The curricula of this division are designed for: those who wish to qualify for a certificate to teach in the secondary school; persons interested in careers in law, diplomatic service, and research should choose curriculum I; persons interested in probation officers, vocational counselors, camp counselors, employment interviewers, juvenile court workers, and officials in the immigration service should

*On Leave

**Retired August, 1974

choose curriculum II; persons interested in careers in general law enforcement, and/or security should choose curriculum III; persons interested in government service, federal, state, or local should choose curriculum IV; and persons interested in careers as social workers should choose curriculum V.

This division discourages substitution for the required courses in the concentration. When such approval is granted, it must be reviewed and approved by the Dean of the College before becoming effective.

MINORS IN SOCIAL SCIENCES

The Division of Social Sciences offers also the following minor sequences:

Minor in Sociology		Minor in History	
Quarter Hours		Quarter Hours	
SOC 201	5	HIS 351 or 352	5
SOC 315	5	HIS 331-332	10
SOC 340	5	HIS 353	5
SOC 350	5	Electives	10
SOC 423	5		
SOC 454	5		
	30		30
Minor in Black Studies ¹		Minor in Political Science	
Quarter Hours		Quarter Hours	
HIS 308	5	PSC 200	5
HIS 309	3	PSC 303	5
HIS 310	5	PSC 304	5
HIS 311	5	PSC 310	5
HIS 312	3	PSC 403	5
HIS 410	5	PSC 405	5
HIS 411	5		30
ECON 404	5		
ART 250	3	Minor in Criminal Justice	
ENG 315	3	Quarter Hours	
ENG 317	3		
SOC 401	3		
PSC 462	5	CRJ 200	5
		CRJ 201	5
		CRJ 300	5
		CRJ 301 or	
		CRJ 403	5
		CRJ 401	5
		CRJ 404	5
			30

¹This is an interdisciplinary minor that may be completed by taking at least thirty hours of course work from among the courses listed.

HISTORY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences - 20 hours required

Mathematics 107-108-109	5 hours
Natural Sciences: (one 10 hour sequence)	10 hours
Biology 123-124, or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203	5 hours

Area III - Social Sciences: 20 hours required

Social Science 101-102	5-10 hours
Social Science 111-201; Political Science 200	10-15 hours

Area IV - Courses Appropriate to the Major: 30 hours required

History 202-203	10 hours
Sociology 201	5 hours
Economics 201	5 hours
Humanities 233,234	9 hours
Social Science 114	1 hour

Sequences selected from the following:

Humanities 141-142	
Humanities 151-152	
Humanities 161-162	10 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours

History: 45 hours as specified below

History 308, 331, 332, 351, or 352, 370 or 380, 353, 413, or 414, 401 or 411, 416	45 hours
Minor	30 hours
Electives	15 hours

SOCIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities: 20 hours required

Humanities 107, 108, 109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, 110	5 hours
Natural Science (one 10-hour sequence).....	10 hours
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203	5 hours

Area III - Social Sciences: 21 hours required

Social Science 114	1 hour
Social Science 101-102	5-10 hours
Social Science 111, 201; History 202-203	10-15 hours

Area IV - Courses Appropriate to the Major: 30 hours required

Sociology 201, Humanities 233	10 hours
Mathematics 200, 217	10 hours
Political Science 200, Economics 201	10 hours

Physical Education

6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours

Sociology: 45 hours, including Sociology 201, 203

Sociology 315, 340, 350, 423, 451, 460	30 hours
Social Work 250	5 hours
Minor	30 hours
Sociology Electives	10 hours
General Electives	15 hours

CRIMINAL JUSTICE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities: 20 hours required	
Humanities 107-108-109	15 hours
Humanities 232	5 hours
Area II - Mathematics and Natural Sciences: 20 hours required	
Mathematics 107-108-110	
Natural Sciences (one 10 hour sequence)	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours
Area III - Social Sciences: 20 hours required	
Social Science 101-102	5-10 hours
Social Science 111, History 202,203	10-15 hours
Area IV - Courses Appropriate to the Major: 30 hours required	
Social Science 114	1 hour
Economics 201	5 hours
Political Science 200	5 hours
Sociology 201	5 hours
Social Science 201	5 hours
Humanities 233-234	9 hours
Physical Education	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 92 quarter hours	
Criminal Justice: 50 hours, of which 40 must be in courses numbered 300 and above	
Minor	30 hours
Electives, including Spanish 198, 199.....	12 hours

POLITICAL SCIENCE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities: 20 hours required	
Humanities 107, 108, 109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, 109	5 hours
Natural Sciences (1 ten-hour sequence)	10 hours
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203	5 hours

Area III - Social Sciences: 21 hours required

Social Science 114	1 hour
Social Science 101-102	5-10 hours
Social Science 111-201; and	
Political Science 200	10-15 hours

Area IV - Courses Appropriate to the Major: 30 hours required

Humanities 233	5 hours
History 202-203	10 hours
Mathematics 200, 217	10 hours
Economics 201	5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Political Science: 50 quarter hours as specified below:

Political Science 303, 304, 310, 311, 390, 391, 392,

403, 405, 499 50 hours

Minor 30 hours

Electives 15 hours

SOCIAL WORK CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Same as Sociology

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Social Work: 60 quarter hours as specified below:

Social Work 303, 310, 320, 365, 406, or 410, 453

Sociology 315, 340, 350, 42360 hours

Additional requirements for Sociology Minor	
Sociology 454	5 hours
Sociology - Social Work Electives	15 hours
General Electives	15 hours

SOCIAL STUDIES EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I - Humanities: 20 hours required

Humanities 107, 108, 109	15 hours
Humanities 232	5 hours

Area II - Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, 110	5 hours
Natural Sciences (one 10-hour sequence)	10 hours
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203	5 hours

Area III - Social Sciences: 21 hours required

Social Science 114	1 hour
Social Science 101-102	5-10 hours
Social Science 111, Political Science 200,	
History 202, 203	10-15 hours

Area IV - Courses Appropriate to the Major: 30 hours required

Social Science 201, Education 216, Humanities 232 .	15 hours
Sequence selected from the following:	15 hours
Humanities 141-142-143	
Humanities 151-152-153	
Humanities 161-162-163	

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 96 quarter hours

Social Sciences: 40 hours as specified	
History 331, 332, 408, 415, 5-hour elective	25 hours
Social Science 420	5 hours
Sociology 201, 250	10 hours
General Electives	9 hours
Education Requirements: 42 hours	
Education 216, 307, 317, 429, 430	42 hours

DESCRIPTION OF COURSES

SOCIAL SCIENCE

101. HISTORY OF WESTERN CULTURE. Study of oriental and classical backgrounds; medieval feudalism; the rise and influence of Christianity; Saracen civilization; transition to modern modes of life; Renaissance and Reformation to 1600. Five class hours a week. Credit, five quarter hours. Fall, Winter and Spring.

102. HISTORY OF WESTERN CULTURE. From 1600 to the present. Religious wars; the rise of national states; commercial, industrial, scientific, and intellectual revolutions; extension of democracy and world organizations. Special consideration is given to the communist versus the democratic way of life. Five class hours a week. Credit, five quarter hours. Fall, Winter, and Spring.

111. WORLD AND HUMAN GEOGRAPHY. Man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation, and communication; conservation of natural resources. Five class hours a week. Credit, five quarter hours. Fall, Winter, and Spring.

201. PSYCHOLOGICAL BASIS FOR HUMAN BEHAVIOR. Introduces the student to psychology as the science which studies the behavior and experience of living organisms, and specifically human behavior and experience. Five class hours a week. Credit, five quarter hours. Fall, Winter, and Spring.

413. TEACHING OF THE SOCIAL STUDIES IN THE SECONDARY SCHOOLS. The historical evolution of the social studies curriculum. The role and scope of teaching strategies related to emphasis on broad approach to integrated social studies by contrast to emphasis on separate and discrete disciplines of subject matter.

Evaluation of trends in ascribing and defining objectives of instruction. Consideration of new media, materials, and methods of new curriculum projects. Three class hours a week. Credit, three quarter hours.

420. DEMOCRACY VERSUS COMMUNISM. A background of Russian history to the Revolution of 1917; political, economic, social, and geographic factors which have played a part in the historical development of communism in the USSR and democracy in the United States. Five class hours a week. Credit, five quarter hours. Spring.

HISTORY

200. THE ESSENTIAL DEVELOPMENTS IN THE HISTORY OF THE UNITED STATES AND IN THE HISTORY OF GEORGIA. Designed to acquaint the student with the institutions and traditions of the United States, from the colonial period to the present, and with corollary developments in the history of Georgia. This course satisfies that phase of the Georgia Code which requires instruction in the history of the United States and Georgia. The Constitution phase of the law may be met through satisfactory completion of Political Science 200. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

201. HISTORY OF AMERICAN MILITARY AFFAIRS. This course is an introductory survey of military affairs in the United States from the Revolution to the present. Its major purpose is to acquaint the student with the American military experience, to emphasize the problems involved in waging war, and to examine the effects of waging war on the society that wages it. Five class hours a week. Credit, five quarter hours.

202. HISTORY OF THE UNITED STATES THROUGH THE CIVIL WAR. An introductory survey of the formative period of the history of the United States. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

203. HISTORY OF THE UNITED STATES SINCE THE CIVIL WAR. A survey of American history from the Civil War to the present. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

301. HISTORY OF THE UNITED STATES THROUGH THE JACKSONIAN PERIOD. Beginning with a brief reference to the

European background of American culture, major events and developments of the United States from 1492 through the Jacksonian Period are discussed. Five class hours a week. Fall. Credit, five quarter hours.

302. HISTORY OF THE UNITED STATES FROM THE JACKSONIAN PERIOD TO 1900. Beginning with the conclusion of the Jacksonian Period, major political, social, and international developments and problems of the United States to 1900 are analyzed. Five class hours a week. Winter. Credit, five quarter hours.

303. HISTORY OF THE UNITED STATES SINCE 1900. An analysis of political, social, and international developments of the United States since 1900. Special emphasis is given to recent events. Five class hours a week. Spring. Credit, five quarter hours.

308. AFRO-AMERICAN HISTORY. A survey of the history of Afro-Americans beginning with the African background and continuing to the present. Five class hours a week. Fall. Credit, five quarter hours.

309. THE AFRICAN AND LATIN AMERICAN BACKGROUND. This course seeks to develop an awareness and appreciation of the Afro-American African and Latin American background and experiences. Beginning with the African background, the course examines the Afro-American past and seeks to integrate that past with his experiences in Latin America. Three quarter hours.

310. THE AFRO-AMERICAN FROM 1619 to 1860. As a continuation of History 309, this course begins with the introduction of Africans into the American colonies; analyzes the evolution and maintenance of the slave system, evaluates Afro-American accommodation, resistance, rebellion, quest for freedom; analyzes the abolition movement, black and white attitudes, institutions and values up to the election of Lincoln. Five quarter hours.

311. THE AFRO-AMERICAN FROM 1861 to 1900. A continuation of History 310, this course emphasizes the impact of the War on Afro-Americans, the life as soldiers, their treatment by Confederate and Union forces, Lincoln's colonization and emancipation plans, Reconstruction, white reaction, and Populist alliances. Five quarter hours.

312. THE AFRO-AMERICAN IN THE 20th CENTURY. Major emphasis is placed on the Modern Afro-American experiences such as Afro-American participation in the World Wars, the depression, and the struggles for civil rights, identity, and self-determination. Three quarter hours.

320. HISTORY OF THE WORLD SINCE 1960. A series of lectures by members of the division's faculty on the major events in the world since 1960. Designed to acquaint the student with the major trends and movements in the contemporary world. Three class hours a week. Credit, three quarter hours.

331. HISTORY OF EARLY MODERN EUROPE. History of Europe from about 1500 until the French Revolution, covering the Reformation, Scientific Revolution, absolutism, family and demographic developments, and the Enlightenment. Lectures and assigned readings. Five class meetings a week. Winter. Credit, five quarter hours.

332. HISTORY OF MODERN EUROPE. A detailed study of the political, social, economic, and intellectual developments in Europe since 1789. Emphasis is on western Europe. Lectures, assigned readings, research paper. Five class hours a week. Spring. Credit, five quarter hours.

341-342. STUDIES IN AFRICAN CIVILIZATION. Designed to develop greater appreciation of the African backgrounds of Black Americans, this course treats the geography, history, politics, economics, religion, and arts of certain African nations. The course includes lectures and group reports. Five credit hours.

343. STUDIES IN AFRICAN CIVILIZATION. This course is a field trip to one or more African nations or to a nation or nations of African ancestry or influence. Summer quarter. Five credit hours.

351. AMERICAN REVOLUTION AND NEW NATION. An examination and analysis of the formative forces in American life during the period from the 1750's through the launching of a new system of national government under the Constitution of 1787. Five class hours a week. Fall. Credit, five quarter hours.

352. AMERICAN CIVIL WAR AND RECONSTRUCTION. An intensive examination and analysis of the forces at work in American life during the crucial period from 1840 through 1877. Five class meetings a week. Fall. Credit, five quarter hours.

353. RECENT AMERICAN HISTORY. An intensive study of the political, social, and economic history of the United States from the First World War to the present. Five class meetings a week. Spring. Credit, five quarter hours.

370. THE HISTORY OF LATIN AMERICA. An appraisal from both an historical and a contemporary viewpoint of the political, in-

tellectual, social and economic development of Latin America and its relations with the United States. Prerequisites: History 301, 302, and 303. Five class hours a week. Winter. Credit, five quarter hours.

380. HISTORY OF THE FAR EAST. An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. Prerequisites: History 301, 302, 303, 331, and 332. Five class hours a week. Winter. Credit, five quarter hours.

395-396-397. INTERNSHIP. An individually designed course-project involving off campus study and research in a government or private agency, during which the student will be under the joint supervision of the sponsoring agency and his faculty advisor. Credit, variable; to be arranged by faculty advisor and department chairman.

401. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. An examination of the principal social and intellectual trends since the Jacksonian era with the purpose of increasing the student's awareness of the social and intellectual forces at work in contemporary America and their historical precedents. Five class meetings a week. Winter. Credit, five quarter hours.

402. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

408. HISTORY OF RUSSIA SINCE 1815. An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. Prerequisites: History 331 and 332 or consent of the instructor. Five class hours a week. Fall. Credit, five quarter hours.

410. HISTORY OF AFRICAN THOUGHT. An examination of traditional and contemporaneous African educational political, social economic, and cultural thought. Prerequisite: History 308. Credit, five quarter hours.

411. HISTORY OF AFRO—AMERICAN THOUGHT. This course is designed to deal primarily with the ideas, institutional practices, values, and ideologies embraced by Afro-Americans historically and contemporaneously. It incorporates the philosophy and tactics of

accommodation, integration, and separation. Prerequisites: History 308 and 410. Credit, five quarter hours.

413. HISTORY OF ENGLAND TO 1688. A study of the political, social, economic, and intellectual movements in England. Emphasis on constitutional developments in the medieval period and during the early modern era. Five class meetings a week. Fall. Credit, five quarter hours.

414. HISTORY OF ENGLAND SINCE 1688. A study of the political, social, economic, and intellectual movements in England since the Glorious Revolution. Emphasis is given to those factors which enabled Britain to rise to a position as a world power and decline of British influence in the twentieth century. Five class meetings a week. Fall. Credit, five quarter hours.

416. INTRODUCTION TO HISTORICAL SEMINAR. Analysis of the sources, and critical methods in evaluating, organizing and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. Prerequisites: History 301, 302, 303, 331, 408 or 410. Five class hours a week. Spring. Credit, five quarter hours.

545. EXPANSION OF EUROPE: SLAVERY AND THE TRANS-ATLANTIC SLAVE TRADE, 1500-1800. Open to graduate students and selected undergraduates. An examination of the development, maturation, and disintegration of slavery and the slave systems in the Americas between 1500 and 1800. Emphasis on the antecedents expansion of European societal forms overseas, especially in the new world. Five class meetings a week. Credit, five quarter hours.

SOCIOLOGY

201. INTRODUCTION TO SOCIOLOGY. An analysis of the development of human group life; structure of the social environmental and its influence upon the individual's behavior. Five class hours a week. Fall. Credit, five quarter hours.

309. INTRODUCTION TO GROUP DYNAMICS. Study of social group formation, the interdependent psychological relationships of group members, and trends in reciprocity between attitudes, values, and norms towards the attainment of group consciousness and cohesiveness; emphasis is focused on intragroup consciousness and intergroup conflict involving social action and counter action. Prerequisite: Sociology 201. Five class hours a week. Winter. Credit, five quarter hours.

315. THE FAMILY. The role of the family in the development of the individual, current psychological, economic, social, educational, and ethical problems of marriage and family life. Prerequisite: Sociology 201. Five class hours a week. Spring. Credit, five quarter hours.

340. TECHNIQUES OF SOCIOLOGICAL RESEARCH. Techniques used in social research; case study, historical, logical, ecological, and statistical, their application to social data. Prerequisites: Sociology 201, 203. Five class hours a week. Spring. Credit, five quarter hours.

350. MODERN SOCIAL PROBLEMS. Analysis of the causes of poverty, disease, crime, family disintegration, and personality maladjustments; preventive measures for human problems. Prerequisite: Sociology 201. Five class hours a week. Fall. Credit, five quarter hours.

365. RACE, POVERTY AND THE LAW. This course will explore the scope and nature of the law applicable to the poor. Moreover, it will emphasize the relationship of poverty and race to crime and the special needs that legal services can render to make more efficacious justice in America. Prerequisites: Sociology 201, 203, 302. Five class hours a week. Fall. Credit, five quarter hours.

395-396-397. INTERNSHIP (credit variable 5-15 hours) Open to students accepted by the Georgia Intern Program. The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency, and for which he will receive a stipend. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. All credit arrangements must be made through the student's major department.

403. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

423. CRIMINOLOGY I. The sociological approach to crime. An investigation of the causes, nature, and extent of crime and the policies used in dealing with crime and the criminal. Prerequisites: Sociology 201, 203. Five class hours a week. Winter. Credit, five quarter hours.

454. HISTORY OF SOCIAL THOUGHT.* A consideration of the development of sociological theories from classical to modern times, with special emphasis on recent and contemporary theories in Europe and America. Prerequisites: Sociology 201, 203. Five class hours a week. Winter. Credit, five quarter hours.

459. CULTURAL ANTHROPOLOGY. Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture. Prerequisite: Sociology 201. Five class hours a week. Spring. Credit, five quarter hours.

460. SOCIOLOGICAL PERSPECTIVES ON BLACK EXPERIENCE IN THE UNITED STATES. Study of historic and current trends in selected sociological frames of reference of experiences encountered by black people in the United States, emphasizing social movement and social change, urban and institutional processes, social values and personality formation. Five class hours a week. Fall. Credit, five quarter hours.

461. THE SOCIOLOGY OF BLACK CULTURE. Study of the "ways" and "whys" of black behavior and the contributions of black people to the "progress" of mankind, emphasizing historic and current cultural developments in Africa, South America, and the United States. Five class hours a week. Winter. Credit, five quarter hours.

462. THE BLACK MAN IN THE THIRD WORLD. Study of social, political, and economic problems and processes in which black people are involved in "the third world" with attention focused on Africa, South America, and the United States. Five class hours a week. Spring. Credit, five quarter hours.

CRIMINAL JUSTICE

200. INTRODUCTION TO CRIMINAL JUSTICE. This course deals with the philosophical background to criminal justice, a brief history of criminal justice, the constitutional limitations of criminal justice, the agencies involved in criminal justice, the processes of criminal justice, and evaluating criminal justice today. Required of all criminal justice majors. Five class hours a week. Fall. Credit, five quarter hours.

201. LAW ENFORCEMENT I. This course involves the detailed study of basic police operations, the policeman's role in law enforcement. Special topics include the police career, criminology for policemen, preserving order and keeping the peace, arrest procedures,

search and seizure, traffic control, mob control, picketing and riots. Five hours a week. Spring. Credit, five quarter hours. Required for all criminal justice majors.

203. PRINCIPLES OF COMMUNITY RELATIONS IN LAW ENFORCEMENT. The role of law enforcement agencies in the community with special references to ethnic, social, and financial problems as well as solutions to basic conflicts in minority police relationships. Fall and Spring. Credit, 5 quarter hours.

300. JUDICIAL PROCESS. This course examines the courts and law enforcements role in the criminal justice process. Special topics discussed include, arrest, search and seizure, wire tapping, electronic eavesdropping, the use of secret agents, entrapment, police interrogations and confessions, the exclusionary rules, police lineups and other pretrial identification procedures. Five class hours a week. Fall. Credit, five quarter hours. Required for all criminal justice majors.

301. JUVENILE DELIQUENCY. Studies both the legal and social character of juvenile delinquency. Special topics include, the policeman's role in the delinquency problem, juvenile deviants and social definitions and behavior, the family and delinquency, middleclass juvenile delinquency, interacting factors in juvenile delinquency, juvenile gangs, crime and juvenile delinquency, juvenile courts and the famous Gault decision. Five class hours a week. Winter. Credit, five quarter hours. Required for all criminal justice majors.

302. CRIMINALISTICS. This course deals with the scientific aspect of criminal investigation and covers the crime scene, crime scene investigation, police photography, forensic photography, casts and molds, glass fractures, blood and other body fluids, the use of the microscope in crime detection, document examination, fire arms comparison, homicide identification and role of the toxicologist in crime detection. Five class hours a week. Spring. Credit, five quarter hours.

303. CONSTITUTIONAL LAW FOR LAW ENFORCEMENT OFFICERS. This course will examine in detail those articles and constitutional amendments which deal exclusively and specifically with police powers and implied law enforcement operational activities. (For Criminal Justice majors only, Spring quarter. Credit, 5 quarter hours).

305. LEADERSHIP AND COMMAND SUPERVISION IN LAW ENFORCEMENT AND POLICE OPERATION. The role of the supervisor and leader in law enforcement activities and elements of successful command authority. Spring, Credit, 5 quarter hours.

310. CRIMINAL JUSTICE INTERN PROGRAM. Work study experience program in one of the specialized career fields of criminal justice. The intern program will involve active operational work experience in one or more of the career areas. (For Criminal Justice majors only, Winter, Spring and Summer, Credit, 5 quarter hours).

400. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

401. CRIMINAL LAW I. Studies the nature, sources and types of criminal law. The classification and analysis of crimes in general and the examination of specific offenses. Special topics include, homicide, murder, rape, larceny, robbery, and arson are examined by case study. Five class hours a week. Fall. Credit, five quarter hours. Required for all criminal justice majors.

403. CORRECTIONS, PROBATION, AND PAROLE. This course studies and overviews the principles, institutions and practices of corrections, probation and parole system. Special topics include, analysis and evaluation of historical and contemporary correctional systems, the development, organization and results of different systems. The career officer's role in the field of probation, rehabilitation, and parole. Five class hours a week. Winter. Credit, five quarter hours. Required for all criminal justice majors.

404. LAW ENFORCEMENT II. Studies the role of the criminal investigator and examines in detail modern investigative techniques used in all phases of criminal investigations. Special topics include, principles of investigation, types of investigations, witness information, investigative policies and procedures, operational interviewing and interrogating and the use of investigative resources and informants. Prerequisite Criminal Justice 201. Five class hours a week. Spring. Credit, five quarter hours. Required for all criminal justice majors.

405. SEMINAR IN CRIMINAL JUSTICE. This course analyzes and examines the legal, local policy and operational procedures to be followed in investigating and resolving various specialized situations of crime and criminal behavior. Modern police practices, community-police relationships, law enforcement facilities, training, recruiting and operational utilization of men and equipment are discussed. Special topics include, the use of police dogs, as well as helicopters in the fight

against crime. Current and future problems faced in all phases of the law enforcement field form the basis for much of the assigned seminar discussion topics. Required of all criminal justice majors. Five class hours a week. Spring. Credit, five quarter hours.

406. CRIMINAL PSYCHOLOGY. The course deals with the law enforcement officer's role in recognizing and handling the criminal psychopath. Special topics include techniques of psychological examinations, abnormal psychology, neurosis and psychosis, sociopathic personality disorders, alcoholism, drug addiction, psychology behind the bars, and the role of the correctional psychologist. Three class hours a week. Fall. Credit, three quarter hours. Required for all criminal justice majors.

407. EVIDENCE IN LAW ENFORCEMENT. This course deals with the rules of evidence and their value in police and law enforcement operations. Special topics include, classification of evidence, recognition of evidence, utilization of evidence, investigative leads and courtroom presentations, the hearsay rule and its exceptions, best evidence rule, impeachment and cross examination, governmental privileges and scientific and demonstrative evidence. Three class hours a week. Winter. Credit, three quarter hours. Required for all criminal justice majors.

408. DIRECTED RESEARCH IN CRIMINAL JUSTICE. A course designed to provide qualified students the opportunity to perform suitable and meaningful research into various specialized areas of criminal justice under the direction of the instructor. Open only by invitation of the instructor. Five class hours a week. Spring. Credit, five quarter hours.

POLITICAL SCIENCE

200. GOVERNMENT. Provides a general understanding of the concepts, functions, and operations of government (international, national, state and local), and a basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.

201. NATIONAL SECURITY POLICY. Deals with the formulation and implementation of American security policy. American military history is analyzed briefly to determine the factors bearing on the development of the defense structure of the United States. The method formulation of national security policy is studied, as is the role of each governmental component concerned with security affairs. The

elements national power are reviewed. Five class hours per week. Credit, five quarter hours.

303. INTERNATIONAL POLITICS. It is a survey study of the basic factors which motivate international relations, including power politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. Prerequisite: Political Science 200 or special permission. Five class hours a week. Spring. Credit, five quarter hours.

304. COMPARATIVE GOVERNMENT AND POLITICS. This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. independent study, readings, research and writing are stressed. Prerequisites: Political Science 200 and 303 or special permission. Five class hours a week. Fall. Credit, five quarter hours.

310. STATE GOVERNMENT. A survey of the nature, organization, and problems of the state and local government and administration in the United States. Five class hours a week. Fall. Credit, five quarter hours.

311. AMERICAN CONSTITUTIONAL LAW. The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. Prerequisite: Political Science 200. Five class hours a week. Fall. Credit, five quarter hours.

390. BLACK POLITICS. This course is designed primarily to deal with the Black man in the American political arena. It deals with Blacks as actors in the political system rather than being acted upon. Such topics as Black Political Parties, Black Pressure Groups, the Black Electorate, Black Public Officials, and Public Policy will be discussed. Five class hours a week. Credit, five quarter hours. Spring.

391. AFRICAN GOVERNMENT AND POLITICS. The purpose of this course is to discuss the government of Black African states--Africa south of the Sahara. It will deal with the effects of colonialism, neocolonialism, and nationalism upon contemporary political in-

stitutions in each African state. Five class hours a week. Credit, five quarter hours. Winter.

392. URBAN GOVERNMENT. Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and people population will all be discussed in connection with the continual urbanization of a society. Five class hours a week. Credit, five quarter hours. Spring.

401. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

403. POLITICAL THEORY. This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the middle Ages, the Machiavelli and the rise of the modern state. Prerequisites: Social Science 101 and 102 or special permission. Five class hours a week. Fall. Credit, five quarter hours.

404. POLITICAL THEORY. A continuation of Political Science 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. Prerequisite: Political Science 403. Five class hours a week. Winter. Credit, five quarter hours.

405. THE AMERICAN POLITICAL PROCESS. This is an inquiry into the functioning of the American political system, and the theories behind it. Stress is placed on federalism, political parties and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing, are stressed. Prerequisite: Political Science 200 or special permission. Five class hours a week. Winter. Credit, five quarter hours.

409. AMERICAN POLITICAL THOUGHT. The purpose of this course is to discuss the nature, scope, and significance of American political ideas and thinkers. It will begin with the ideas of the revolutionary leaders and move to the political thoughts of the radical right, new left, and the Black Revolution. Five class hours a week. Credit, five quarter hours.

410. PUBLIC ADMINISTRATION. Students in this course will be acquainted with the nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff, will also be brought to light. Five class hours a week. Credit, five quarter hours.

418. GOVERNMENT AND POLITICS OF SOUTHEAST ASIA. This course will focus upon the governments of Southeast Asia and analyze the impact that colonialism, nationalism and communism has had upon them. In addition, the present foreign policy of each country will be discussed as well as its relationship to the SEATO organization. Five class hours a week. Credit, five quarter hours.

419. JURISPRUDENCE. This course will focus primarily upon the philosophy of the law and it will cover each school of jurisprudence (from historical to sociological jurisprudence) and relate these to a large context of man and his civil liberties. Five class hours a week. Credit, five quarter hours.

450. POLITICAL PARTIES. The focus of this course is upon the evolution, nature, and role of American political parties. The course will deal with each of the major party systems as well as with theories about party organizations. Five class hours a week. Credit, five quarter hours. Fall.

498. AMERICAN FOREIGN POLICY. This course will focus upon the origin, nature, and consequences of American foreign policies. Moreover, the role and impact of the Presidency, public opinion, Congress, and outcome will also be included. Five class hours a week. Credit, five quarter hours. Fall.

499. RESEARCH IN POLITICAL SCIENCE. This course is to acquaint the student with the nature of inquiry as well as the dimensions and approaches to Political Science. The historical, analytical, comparative, descriptive, legalistic, behavioral and mathematical application to man's political behavior will be discussed. Five class hours a week. Credit, five quarter hours. Fall.

SOCIAL WORK

250. INTRODUCTION TO HUMAN SERVICES. A study of the origins and evolution of the American Social Welfare system, with emphasis on themes and patterns leading the present system and approach to services. Offered each quarter. Credit, five quarter hours.

303. INTERVIEWING METHODS AND TECHNIQUES. An examination of methodology in casework, group work, and family treatment, with emphasis on interpersonal communications, role playing and recording. Prerequisite: Social Work 101 or Sociology 201. Spring and Fall. Credit, five quarter hours.

309. GROUP DYNAMICS. A course which utilizes the group experience documented by tape recorder, video tape and subjective perceptual comparison. It is designed to analyze behavior patterns, roles and interactions which occur within a group and to develop self-awareness. Prerequisites: Sociology 201 and Social Work 303. Exceptions made with approval of professor. Credit, five quarter hours.

310. COMMUNITY SOCIAL SYSTEMS. A socio-political study of behavior in leadership or decision making positions as it affects social and human needs. Examines public education, social welfare agencies and health care agencies. Prerequisites: Sociology 201 and Social Work 250. Credit, five quarter hours.

320. ETHNIC MINORITY GROUPS. This course deals with the present and factual situation of minority groups in America. It will cover problems, causes, agencies, advocates, goals, and alternatives available to minority groups. Emphasis is on the Black American with proportionate attention given to the Chinese American, Chicano, native American and other sizeable minorities. Prerequisites: Social Work 101 or Sociology 201. Credit, five quarter hours.

370. COMMUNITY SERVICE LEARNING EXPERIENCE. This is a supervised community experience which would precede the more in-depth experience which comes in the field experience practicum. It is designed to permit a student otherwise qualified to be employed and earn 5 hours credit. The student must undergo a behaviorally oriented workshop and must meet with faculty and field instructor periodically through the work experience. He must present a paper and successfully complete an oral examination before receiving credit for the course. Offered on demand. Prerequisites: Sociology 201 and/or Social Work 250 and approval of instructor. Credit, five quarter hours.

406. CHILD WELFARE. A study of child development and behavior at various life stages with emphasis on methods of assisting a child with social economic and emotional needs. Prerequisites: Social Work 250 and 303. Credit, five quarter hours.

410. HUMAN SERVICES TO THE ELDERLY. A course designed for students going into public or private agencies serving the elderly. Emphasis will be placed on the social, economic and health needs of the elderly with attention to delivery systems that work. New

knowledge, research and actual projects will be studied where practicable. Prerequisite: Social Work 303. Credit, five quarter hours.

430. TREATMENT OF DEPENDENCE ADDICTION. A course focusing on the various forms of drug and alcohol addiction, effective means of treatment, rehabilitation and prevention of drug and alcohol overuse based on the latest factual and documented information. Prerequisite: Social Work 303. Credit, five quarter hours.

451. FIELD EXPERIENCE I. An experience for the student in applying his academic skills and knowledge for the purpose of delivering human service and increasing his knowledge and ability. Each student is placed in the community under professional supervision. He will work primarily through social and health agencies which meet human needs. For Senior Social Work students only. Credit, five quarter hours.

452. FIELD EXPERIENCE II. A continuation of Social Work 451. Each student will spend 16 clock hours per week in the field including on the job supervisory conferences. In addition there will be group supervision two hours weekly with the Field Coordinator. For Senior Social Work students only. Credit, five quarter hours.

453. FIELD EXPERIENCE III. An experience for the student in applying his academic skills and knowledge for the purpose of delivering human service and increasing his knowledge and ability. Each student is placed in the community under professional supervision. He will work primarily through social and health agencies which meet human needs. Amount of time spend in the field is to be equivalent of 5 full days, 8 hours a day. Included in this time is one meeting a week with the faculty field work coordinator and other field work students. Prerequisite: Social Work 303 and permission of instructor. For senior Social Work students only. Credit, fifteen quarter hours.

475. SENIOR SEMINAR. Social work as a human service professional directs its attention to any social problem which is identified as amenable to treatment and prevention. The seminar will be geared to recent changes in the structure, function, processes and goals of the human service delivery system and the underlying reasons for the change. Credit, five quarter hours.

490. INDEPENDENT STUDY. Experiential based study of a selected social work topic. Invitation of professor.

491. INDEPENDENT STUDY. Research and experiential based study in social work topic of student interest or specialty. Invitation of professor.

DIVISION OF TECHNICAL SCIENCES

CLYDE W. HALL, *Chairman*

ORGANIZATION AND DEGREE PROGRAMS

The Division of Technical Sciences comprises instructional programs in engineering technology, home economics, and industrial teacher education. Instructional activities are organized within the Department of Engineering Technology and the Department of Home Economics. The former offers courses leading to the degree of Bachelor of Science, with majors in Civil Engineering Technology, Electronics Engineering Technology, and Mechanical Engineering Technology; and to the degree of Associate of Science, with majors in Civil Technology, Drafting and Design Technology, Electronics Technology, and Mechanical Technology. The three above engineering technology curricula are accredited by the Engineers' Council for Professional Development. The Department of Home Economics offers courses leading to the degree of Bachelor of Science with majors in Dietetics and Institution Management and Textiles and Clothing, and to a certificate in Dressmaking and Tailoring.

BASIC PREPARATION FOR TECHNICAL EDUCATION

Offerings of this Division are, in the main, designed to prepare graduates for immediate employment as professional and semi-professional workers in technical home economics and engineering technology. Intensive training for careers in these areas presupposes a good foundation in the applied sciences. Accordingly, thorough high school preparation in physics, algebra, plane geometry, trigonometry, and industrial shop is essential for all who plan to study engineering technology. A knowledge of chemistry and a background in home economics are essential for those who go into technical home economics.

INDUSTRIAL TEACHER EDUCATION AND TRADE AND INDUSTRIAL EDUCATION

This Division offers the required shop work and special subject preparation for students who plan to teach industrial arts and trade and industrial subjects. The industrial arts education program does not prepare graduates for employment as skilled or semi-skilled workers in industry. On the contrary, it provides instruction in a variety of industrial shop activities. This instruction, augmented by ap-

propriate general and professional education, prepares graduates to teach industrial arts in the secondary school.

The trade and industrial education program is designed for those who plan to teach trade and industrial subjects on a vocational basis in the secondary and area vocational-technical schools. In order to pursue this program one must have learned an occupation in an area vocational-technical school and/or worked in industry in the occupation he is preparing to teach.

COOPERATIVE PROGRAM

The Division of Technical Sciences offers a cooperative program in trade and industrial education and engineering technology which enables students to gain practical work experience in industry as paid workers during their college years. This program is open to beginning sophomore students (46 quarter hours) with satisfactory academic records at the college and the specific qualifications of cooperating employers. The college does not guarantee the availability of work stations, kinds of work, or amount of compensation received under this program, but attempts to locate desirable employers and place students to their best educational and financial advantages.

Students in the cooperative program work in industry and attend classes at the college during alternating quarters or as arranged with an employer and are required to maintain creditable records, both in school and industry, in order to continue in this program. Persons in this program are considered by the college to be regularly enrolled students while they are employed in industry, therefore, they may not enroll in classes at any educational institution during the employment period. Students must observe all applicable regulations of the employing company and must consider themselves employees of the company while on-the-job.

Students pursuing this program will take five or more years to complete their requirements for the Bachelor's degree, and at the conclusion of the program they are not obligated to accept employment with cooperating companies and neither are the companies obligated to offer them employment.

DUAL DEGREE PROGRAM

Savannah State College has entered into an agreement with Georgia Institute of Technology to offer a Dual Degree Program whereby un-

dergraduate students can attend this institution for approximately three academic years and the latter institution for approximately two academic years and receive baccalaureate degrees from both institutions. This program is open to majors in chemistry, mathematics, civil engineering technology, electronics engineering technology and mechanical engineering technology, and is coordinated by the Chairman of the Division of Technical Sciences.

Bachelor degrees are offered at Georgia Institute of Technology as a part of this program in aerospace engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering economic systems, engineering science, industrial engineering, mechanical engineering, nuclear engineering, science in textile chemistry, science in textiles, and textile engineering.

In order for a student to become a dual degree candidate at Georgia Institute of Technology, he must have:

1. A college grade point average and specific test results which would indicate that he could satisfactorily complete the degree requirements at Georgia Institute of Technology.
2. A recommendation from the Chairman of the Division of Technical Sciences.
3. Completed 145-150 quarter hours at Savannah State College in the below listed courses according to his major.

GENERAL REQUIREMENTS

	Quarter Hours
HMN 107-108-109 English Communicative Skills	15
HMN 232 Introduction to the Humanities	5
SOS 101-2 Western Culture	10
HIS 200 History of United States	5
PSC 200 Government	5
CHE 101-102 General Inorganic Chemistry	10
PHY 201-202-203 Physics	15
MAT 212-213-214 Analysis	15
MAT 404 Differential Equations	5
ENT 202 Statics	5
Total	90

CIVIL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102-103 Engineering Drawing	15
ENT 203 Dynamics	5
ENT 321-322 Strength of Materials	10
CET 333-421 Surveying I-II	10

CET 302 Construction Planning, Equipment & Methods ...	5
TSC 233 Technical Report Writing	2
MAT 107-8 College Algebra & Trigonometry	10
TSC 302 Technical Education Seminar	1
Total	58

ELECTRONICS ENGINEERING TECHNOLOGY MAJOR

Quarter Hours

ENT 101-102 Engineering Drawing	10
EET 201 Direct Current Circuits	5
EET 202 Alternating Current Circuits	5
EET 203-301 Electronics Principles	10
EET 213 Electrical Machinery	5
EET 302 Electronics Circuits	5
EET 303 Pulse and Digital Circuits	5
MAT 107-8 College Algebra and Trigonometry	10
TSC 223 Technical Report Writing	2
TSC 302 Technical Education Seminar	1
Total	58

MECHANICAL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102-103 Engineering Drawing	15
ENT 203 Dynamics	5
ENT 321-322 Strength of Materials	10
MET 301 Materials and Processes	5
MET 312 Metal Fabrication	5
MET 313 Metal Machining Processes	5
MAT 107-108 College Algebra & Trigonometry	10
TSC 223 Technical Report Writing	2
TSC 302 Technical Education Seminar	1
Total	58

CHEMISTRY MAJOR

MAT 107-108 College Algebra & Trigonometry	10
CHE 103 General Inorganic Chemistry	5
CHE 303-304-305 Analytical Chemistry	14
CHE 307-308-309 Organic Chemistry	14
CHE 313-409-410 Organic Preparation	4
HMN 151-152 Elementary German	10
Total	57

MATHEMATICS MAJOR

MAT 107-108 College Algebra & Trigonometry	10
MAT 217 Introduction to Probability and Statistics	5

MAT 315-316 Modern Algebra	10
MAT 318 Advanced Probability and Statistics.....	5
MAT 306 Basic Computer Programming	5
MAT 320 Theory of Equations	5
Elementary French or German or Spanish	15
Total	55

Department of Engineering Technology

Lester B. Johnson, Jr., *Head*

Ernest S. Brown *

Charlie Gaulden

John T. Demel

John L. Mason

Min-tai Pao

Paul C. Tien

Denis A. Potter

Nathan P. Stone

The ultimate objective of the engineering technology program is to provide the student with an educational experience that will allow him to succeed as an engineering technologist. This involves keeping the student interested and providing opportunity for him to become skillful in his assimilation of information and techniques. When the student leaves he is aware of, and has fixed firmly in his mind, the potential of which he is capable.

Engineering technology embraces the physical sciences, mathematics, and the practices and materials of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, communication systems, and products needed to maintain a highly civilized society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using tests to provide data for rational solutions and designs. These tests are followed by interpretations of data and preparation of appropriate plans for use by skilled craftsmen who produce the devices and/or products.

*On leave

Thus, to prepare men and women with technical knowledge and skills essential to modern society, the Department of Engineering Technology offers courses in civil, electronics, and mechanical engineering technology. The Bachelor's Degree curricula in Civil Engineering Technology, Electronics Engineering Technology, and Mechanical Engineering Technology are accredited by the Engineers' Council for Professional Development, the national accrediting agency for engineering technology.

CIVIL ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development.

The curriculum in civil engineering technology is designed to provide ample instruction in those areas of knowledge required for successful performance in the following capacities as well as in other construction related positions.

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technologist—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy or rough draft drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

ELECTRONICS ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development.

The electronics engineering technology curriculum provides in-

struction in the fundamentals of vacuum tube and semiconductor circuit theory, with emphasis on the application of theoretical principles to actual electronic devices. Graduates of the electronics technology sequence are prepared to function in these positions.

Research Analyst—engages in design and development activities involved in producing new electronic devices.

Communications Technologist—performs accurate tests of the performance of new electronic devices for manufacturers of electronic components; installs, operates, and maintains various types of communications equipment.

MECHANICAL ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development.

The mechanical engineering technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery, test materials and supervise production and engineering projects. A graduate of the mechanical engineering technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Draftsman—drafts from specifications and sketches of proposed mechanical devices and prepares accurate scale drawings of mechanisms.

Mechanical Engineering Technologist—works with mechanical engineers on design and production projects.

MATHEMATICS MINOR

Students majoring in civil, electronics, or mechanical engineering technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

ELECTRONICS—PHYSICS MINOR

Students majoring in mathematics may obtain an electronics-physics minor by taking Elecs. Engineering Tech 201, 202, 203, or 213 in addition to Physics 201 and 202.

ASSOCIATE OF SCIENCE DEGREE

A two-year program sponsored jointly with the Savannah Area Vocational-Technical School to combine the specialized technical

development of the vocational-technical school with the general education curriculum of the College for the purpose of producing well qualified employable technicians. The program is also designed to provide the necessary academic preparatory development of the individual so that he may continue his education in his specialty without penalty, if he so desires.

At the present time the program comprises four specific areas: Civil Technology; Drafting and Design Technology; Electronics Technology; and Mechanical Technology. Each curriculum requires 100 quarter hours for the degree. Fifty-five quarter hours are to be completed at Savannah State College and 45 quarter hours credit will be awarded for course work completed in the technical areas at the Savannah Area Vocational-Technical School. A maximum of 25 quarter hours of general education may be transferred from another approved college.

A student may be concurrently enrolled at both institutions or he may complete the required work at either institution before enrolling at the other. Participants will be governed by admissions requirements and all applicable academic regulations of the College and the Vocational-Technical School.

Each Associate of Science degree program will include the following courses:

	Hours
HMN 107-108-109, English Communicative Skills	15
MAT 107-108, College Algebra and Trigonometry	10
PHY 101-102 or 103, General Physics	
or	
CHE 101-102, General Chemistry	10
SOS 101-102, Western Culture	5
SOS 114, Psychology of Social Relationships	1
PSC 200, Government	5
PED 111-112-113, Seasonal Activities	3
ENT 113, Slide Rule	1
ENT 210, Engineering Calculations	3
TSC 223, Technical Writing	2
Total	55

Technical courses taken at the Vocational-Technical School may be substituted for specified courses in each curriculum for those students who wish to seek a Bachelor of Science degree in Engineering Technology after completing the cooperative program.

CIVIL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours including physical education

Area I — Humanities — 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences — 20 hours required

Mathematics 107-108	10 hours
Physics 201-202	10 hours

Area III — Social Science — 21 hours required

History 200 ¹	5 hours
Political Science 200	5 hours
Social Science 101-114-201	11 hours

Area IV — Courses Appropriate to the Major — 36 hours required

Engineering Technology 101-102-103	15 hours
Mathematics 109-212-213	15 hours
Physical Education	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Civil Engineering Technology: 55 hours as specified below:

CET 302, 303, 313, 333, 401, 403, 411, 412, 413, 421, 422

Engineering Technology: 23 hours required

ENT 202, 203, 210, 321, 322

Technical Sciences: 3 hours required

TSC 223, 302

Suggested Electives: 17 hours selected mainly from the following:

Chemistry 101, Economics 200, Mathematics 306

ELECTRONICS ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours including physical education

Area I — Humanities — 20 hours required	
Humanities 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences — 20 hours required	
Mathematics 107-108	10 hours
Physics 201-202	10 hours
Area III — Social Science — 21 hours required	
History 200 ¹	5 hours
Political Science 200	5 hours
Social Science 101-114-201	11 hours
Area IV — Courses Appropriate to the Major — 36 hours required	
Economics 200	5 hours
Engineering Technology 101-102	10 hours
Mathematics 109-212-213	15 hours
Physical Education.....	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Electronics Engineering Technology: 75 hours as specified below:
 EET 103, 201, 202, 203, 213, 301, 302, 303, 312, 313, 411, 421, 422, 423, 432.

Engineering Technology: 4 hours required
 ENT 113, 210

Technical Sciences: 3 hours required
 TSC 223, 302

Electives: 16 hours, including the following
 Chemistry 101, Mathematics 306

MECHANICAL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours including physical education

Area I — Humanities — 20 hours required	
Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences — 20 hours required	
Mathematics 107-108	10 hours
Physics 201-203	10 hours
Area III — Social Science — 21 hours required	
History 200 ¹	5 hours
Political Science 200	5 hours
Social Science 101-114-201	11 hours
Area IV — Courses Appropriate to the Major — 36 hours required	
Engineering Technology 101-102-103	15 hours
Mathematics 109-212-213	15 hours
Physical Education	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Mechanical Engineering Technology: 52 hours required

MET 301, 302, 303, 312, 313, 330, 340, 401, 402, 403, 420, 421

Engineering Technology: 28 hours required

ENT 113, 202, 203, 210, 312, 321, 322

Technical Sciences: 3 hours required

TSC 223, 302

Suggested Electives: 15 hours required

Chemistry 101, Economics 200, Mathematics 306

DESCRIPTION OF COURSES

ENGINEERING TECHNOLOGY

101. ENGINEERING DRAWING I. A study of drawing instruments, lettering, applied geometry, and orthographic projection. Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.

102. ENGINEERING DRAWING II. Pictorial drawings, auxiliary views, sections; dimensions. Prerequisite: Engineering Technology 101. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

103. ENGINEERING DRAWING III. Intersections and developments; working drawings, fasteners; gearing and cams; structural, ar-

chitectural and topographic drawings. Prerequisite: Engineering Technology 101. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

113. SLIDE RULE. A study of the proper methods for using slide rules. One class hour a week. Fall and Spring. Credit, one quarter hour.

202. STATICS. A study of Newton's laws, vectors, force systems, equilibrium, friction, and virtual work. Prerequisite: Mathematics 109. Five class hours a week. Winter. Credit, five quarter hours.

203. DYNAMICS. A study of kinematics, kinetics, energy, power, momentum, and periodic motion. Prerequisites: Mathematics 212 and Engineering Technology 202. Five class hours a week. Spring. Credit, five quarter hours.

210. ENGINEERING CALCULATIONS. A course in integrated calculations covering selected topics of applied mathematics in surveying, design, mechanics, hydraulics, and electronics. Three class hours a week. Credit, three quarter hours. Prerequisite: Mathematics 212 and 213.

321. STRENGTH OF MATERIALS I. A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. Prerequisites: Mathematics 213 and Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

322. STRENGTH OF MATERIALS II. A study of indeterminate structures, torsion, combined loads, instability, and fatigue. Prerequisite: Engineering Technology 321. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

430. USE OF COMPUTER IN ENGINEERING TECHNOLOGY. Introduction to machine language (Fortran IV, etc.) and its utilization for solving technology design problems. Civil-applications will cover problems in structural steel, highway design, reinforced concrete, etc. Electronics-use of computer to solve electric/electronic network problems, automatic control and industrial electronic system designs. Mechanical-applications will be centered around machine design problems. Prerequisites: Mathematics 306; Civil-senior standing. Electronics-Electronics Engineering Technology 312. Mechanical-course to be taken concurrently with Mechanical Engineering Technology 303. Two class hours a week. Credit, two quarter hours.

CIVIL ENGINEERING TECHNOLOGY

301. CONSTRUCTION MATERIALS. Methods used to manufacture lumber, stone and clay products, binders, concretes, ferrous alloys, and non-ferrous metals and alloys. Five class hours a week. Fall. Credit, five quarter hours.

302. CONSTRUCTION PLANNING, EQUIPMENT AND METHODS. Job planning and management, construction equipment, operation analysis, tunneling, cofferdams, piles and pile-driving equipment, steel erection, concrete, and safety engineering. Five class hours per week. Winter. Credit, five quarter hours.

303. HYDRAULICS. The analysis and design of hydraulic works. Fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

313. TIMBER STRUCTURES. Characteristics and classifications of wood, working stresses, properties, design of structural members, timber connection, codes, and design of problems in light and heavy timber structures. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

333. SURVEYING I. A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. Prerequisites: Mathematics 107 and 108. Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.

401. STRUCTURAL STEEL DESIGN. Scientific principles and drafting room practices involved in designing steel structures. Prerequisite: Civil Engineering Technology 313. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

402. ESTIMATING. A study of the mathematical techniques used to estimate the cost of the equipment, labor, and materials involved in constructing highways and buildings. Prerequisite: Civil Engineering Technology 302. Two class hours and one two-hour laboratory periods a week. Spring. Credit, three quarter hours.

403. ENVIRONMENTAL ENGINEERING. This is a survey course which emphasizes a practical approach to solving environmental problems by integrating the subject matter of the total

curriculum into the solution. The primary areas of study are: Environmental Engineering Planning, Water Supply; Waste-Water Treatment and Disposal; Solid Waste Management; and Air Pollution Control. Emphasis is placed on the relationship of Civil Engineering projects to the environment and the effect of one upon the other. Prerequisites: Civil Engineering Technology 303 or consent of instructor. Spring. Five class hours a week. Credit, five quarter hours.

411. SOIL MECHANICS. A study of the theory of soil mechanics as applied by permeability, consolidation, shear strength; unconfined compression. Atterbury limits, compaction tests, specific gravity, grain size, and classification of soils. Prerequisite: Chemistry 101. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

412. REINFORCED CONCRETE DESIGN. Scientific principles and drafting room practices involved in designing reinforced concrete structures. Prerequisite: Civil Engineering Technology 401. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

413. CONSTRUCTION CONTRACTING. Laws governing construction and the procedures used to express agreement in business transactions in construction. Emphasis is placed on the study of codes, contracts, specifications, estimating, and bidding as well as project planning and scheduling. Prerequisite: Civil Engineering Technology 402 or consent of instructor. Four class hours and one one-hour laboratory period a week. Winter. Credit, five quarter hours.

420. DESIGN PROJECT. A course wherein the student correlates all previous information studied and conceives, designs and develops the drawings, specifications, and estimate for an approved structure. Prerequisites: Civil Engineering Technology, 302, 313, 401, 402, and 412. Two class hours and three two-hour laboratory periods a week. Credit, five quarter hours.

421. SURVEYING II. A study of land, route, and construction surveying. Prerequisite: Civil Engineering Technology 333. Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.

422. HIGHWAY ENGINEERING. A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. Prerequisites: Civil Engineering Technology 411 and 421. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

ELECTRONICS ENGINEERING TECHNOLOGY

103. ELECTRICAL FUNDAMENTALS. Soldering techniques, electronic drafting, printed circuit construction, chassis layouts, wiring techniques, and laboratory safety. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

201. DIRECT CURRENT CIRCUITS. A study of the electron theory. *Ohm's law*, series and parallel circuits. Kirchhoff's laws, superposition, Thevenin's theorem, and magnetic circuits. Prerequisite: Mathematics 108. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

202. ALTERNATING CURRENT CIRCUITS. A study of waveforms, impedance, resonance, vector loci, Norton's theorem, transformer theory, and Fourier series. Prerequisite: Electronics Engineering Technology 201. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

203. ELECTRONIC PRINCIPLES I. A STUDY OF THE Edison effect, dynamic coefficients, transistors, silicon diodes, load lines, and filters. Prerequisite: Electronics Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

213. ELECTRICAL MACHINERY. Rotating electrical machinery, electronic regulation, and polyphase systems. Prerequisite: Electronics Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

301. ELECTRONIC PRINCIPLES II. A study of power supplies: potential, current, audio, and RF amplifiers; rectifiers. Prerequisite: Electronics Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

302. ELECTRONIC CIRCUITS. A study of oscillators, audio and RF circuitry, pulse amplifiers, wave shaping circuits, timers, equivalent, gate, and switching circuits. Prerequisite: Electronics Engineering Technology 301. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

303. PULSE AND DIGITAL CIRCUITS. A study of timers; equivalent, gate and switching circuits. Prerequisite: Electronics Engineering Technology 302. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

310. ENERGY CONVERSION. The generalization, control and conversion of electric energy. Generalized theory of energy conversion devices such as DC, AC machines and transformers. Generalized machine and circuit models, transfer function, flow chart analysis and the application of Laplace transformation. Prerequisites: Mathematics 212, 213; Electronics Engineering Technology 201, 202, 213. Two class hours a week. Credit, two quarter hours.

311. ELECTRICAL MEASUREMENTS. Design and construction of electrical measuring devices such as ammeters, voltmeters, wattmeters, bridges, oscilloscopes, time marker generators, and thermocouples. Prerequisite: Electronics Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

312. NETWORK ANALYSIS. A study of alternating current circuit characteristics and concepts from the standpoint of complex quantities. Development of transient and steady-state responses. Investigate power and energy in polyphase circuits and relationships to electronic circuits and devices. Prerequisite: Electronics Engineering Technology 202. Five class hours a week. Winter. Credit, five quarter hours.

313. COMMUNICATIONS ELECTRONICS. A study of oscillators, antenna systems, squelching circuits, video and synchronous amplifiers; separator, differentiating and integrating circuits, tuners and deflection systems. Prerequisite: Electronics Engineering Technology 302. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

320. ELECTRONIC PROPERTIES OF MATERIALS. A study of the microscopic structure of materials. Crystal lattice, basis and atomic aggregations. Electronic behavior of insulator, conductor, semiconductor and their band structures. Physical properties of such materials as superconductors, ferroelectrics, diamagnetics, paramagnetics and ferromagnetics. Prerequisites: Physics 201 and 202. Three class hours a week. Credit, three quarter hours.

402. AMPLITUDE AND FREQUENCY MODULATION TRANSMITTERS. A study of RF power amplifiers, modulation techniques, transmission lines, exciters, single sideband transmission, reactance tubes, frequency multipliers, noise factors, limiters, bandwidth, and propagation. Prerequisite: Electronics Engineering Technology 313. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

410. ADVANCED NETWORK THEORY. Definition and analysis of lumped, linear, non-linear, time-invariant systems. Complex plane

representation and analysis of system response. Discussion of the criterion for the physical realizing of impedance function and the fundamentals of network synthesis. Prerequisites: Mathematics 212, 213; Electronics Engineering Technology 201, 202, 312. Three class hours a week. Credit, three quarter hours.

411. INDUSTRIAL ELECTRONICS. Induction heating, X-ray techniques, resistance welding, phase inverters, and electronic temperature control. Prerequisite: Electronics Engineering Technology 303. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

412. COMMUNICATIONS LAW. Federal regulations governing the use of electromagnetic radiation. Prerequisite: Electronics Engineering Technology 313. Five class hours a week. Credit, five quarter hours.

413. SERVOMECHANISMS. A study of synchro generators, synchro motors, inertia damping, repeater systems, control transformers, and resolvers. Prerequisite: Electronics Engineering Technology 303. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

420. LOGIC CONCEPT OF DIGITAL COMPUTER. Mathematic foundation of electronic digital computer. Threshold logic concepts. Analysis, synthesis of sequential circuits and practical logic design. Prerequisites: Mathematics 306; Electronics Engineering Technology 302, 303. Two class hours a week.

421. INTRODUCTION TO DIGITAL COMPUTERS. The primary purpose of this course will be to study the theory and operational principles of fundamental digital computers. The subsystems, which include the input-output equipment, the arithmetic unit, the memory unit, and the control circuit will be studied. Emphasis will be placed on basic circuitry as well as the logic tools of the system such as: digital gates, flip-flops, minimization techniques, IC-modules, shift-registers, solid state memories, and magnetic core memories. Prerequisites: Electronics Engineering Technology 302 and 303. Three class hours and two-hour laboratory periods a week. Fall. Credit, five quarter hours.

422. ELECTRIC AND MAGNETIC FIELDS. A study of electrostatics, including solutions of LaPlace's equation, magneto statics, Maxwell's equations, and electromagnetic laws. Prerequisite: Electronics Engineering Technology 302, 303. Five class hours a week. Winter. Credit, five quarter hours.

423. MICROWAVES. A study of wave guides, T-junctions, matching devices, cavity resonators, magnetrons, klystrons, hard tube modulators, and polarization. Prerequisite: Electronics Engineering Technology 402. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.

432. CONTROL SYSTEMS. A study of basic principles and concepts of automatic control systems. Transform techniques, transfer functions and transducers. Closed loop systems. Use of the analog computer in control system design. Prerequisites: Electronics Engineering Technology 302, 303. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

MECHANICAL ENGINEERING TECHNOLOGY

301. MATERIALS AND PROCESSES. A study of some of the more important materials and processes used by modern industries. Prerequisite: Engineering Technology 103. Five class hours a week. Fall. Credit, five quarter hours.

302. KINEMATICS. Graphical and analytical methods used to determine displacements, velocities, and accelerations in mechanisms. Prerequisite: Engineering Technology 203. Two class hours and two two-hour laboratory periods a week. Fall. Credit, four quarter hours.

303. MACHINE DESIGN I. A study of the design of shafts, springs, screws, belts, clutches, brakes, and connections. Prerequisite: Mechanical Engineering Technology 302 and Engineering Technology 321 or consent of instructor. Two class hours and two two-hour laboratory periods a week. Winter. Credit, four quarter hours.

312. METAL FABRICATION. A study of various metal forming, joining and casting techniques using a variety of metals and processes. Study includes the care, set-up and operating principles of equipment. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

313. METAL MACHINING PROCESSES. A study of lathes, milling machines, shapers, drill presses, grinders, saws, and other machine tools. Prerequisite: Mechanical Engineering Technology 312. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

330. INDUSTRIAL ENGINEERING I. Introduction to time and motion study, job evaluation, wage incentives and management. Prerequisites: Mechanical Engineering Technology 301 or consent of

instructor. Two class hours and one two-hour laboratory a week. Fall or Spring. Credit, three quarter hours.

340. INDUSTRIAL ENGINEERING II. Introduction to plant layout and materials, handling, equality control and management. Prerequisites: Mechanical Engineering Technology 301 or consent of instructor. Two class hours and one two-hour laboratory a week. Fall or Spring. Credit, three quarter hours.

401. MACHINE DESIGN II. A study of lubrication, bearing design, gearing, interference fits, and impact loading; or suitable design problem. Prerequisite: Mechanical Engineering Technology 303. Two class hours and two two-hour laboratory periods a week. Spring. Credit, four quarter hours.

402. THERMODYNAMICS. Fundamental principles of thermodynamics, with emphasis on applications. Prerequisite: Mathematics 213 and Chemistry 101. Five class hours a week. Spring. Credit, five quarter hours.

403. FLUID MECHANICS. A study of hydrostatics, viscosity, dimensionless constants, meters, gages, and fluid flow in channels and pipes. Prerequisites: Mathematics 213 and Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

410. HEAT TRANSFER. Application of basic principles learned in thermodynamics to heat transfer processes, engines, boilers, heat exchangers and refrigeration. Prerequisite: Mechanical Engineering Technology 402. Two class hours per week. Credit, two quarter hours.

420. METALLURGY. A study of metals, alloys, and their properties. Instruction will include heat treating, metallography, and phase diagrams. Prerequisites: Chemistry 101 or consent of instructor. Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.

421. MECHANICAL POWER. A STUDY OF VARIOUS TYPES OF INTERNAL AND EXTERNAL COMBUSTION ENGINES. Study includes engine ratings, cycles, performance parameters, engine design, and construction. Two class hours and two two-hour laboratory periods a week. Fall. Credit, four quarter hours.

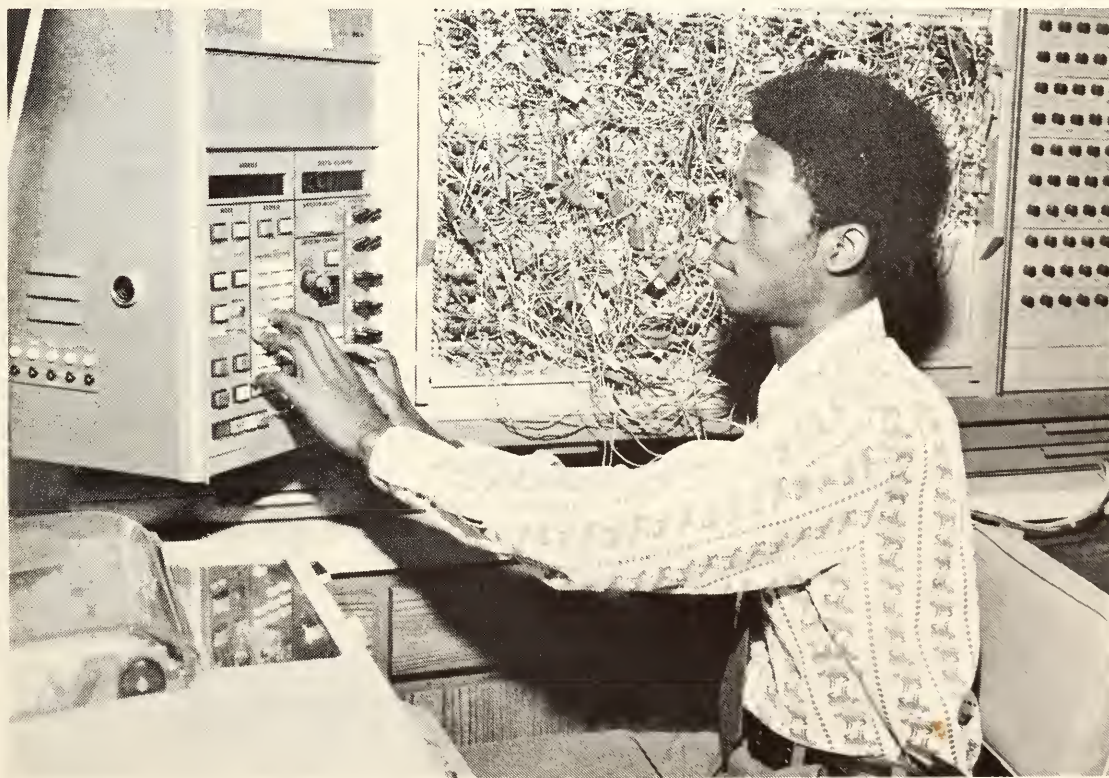
TECHNICAL SCIENCES

101. COOPERATIVE EDUCATION SEMINAR. Designed to prepare co-op students in developing a sense of appreciation for co-op work experience. Covers the rudiments of job interviewing, test consciousness and career planning. One class hour a week. Credit, one quarter hour.

202-300-301-400. COOPERATIVE EDUCATION WORK EXPERIENCE. Student works full-time in industry under the supervision of the Director of Cooperative Education. Each course has specific written requirements. Credit, five quarter hours per course. Total credit, twenty quarter hours.

223. TECHNICAL WRITING. Reporting, writing technical report, illustrating technical reports, research papers, oral reporting, group communication and participation. Prerequisites: Humanities 107, 108, and 109. Two class hours a week. Fall and Spring. Credit, two quarter hours.

322. TECHNICAL SCIENCES SEMINAR. This seminar covers a wide range of theory, techniques and applications as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled from time to time in order to stimulate interest in the respective fields. One class hour a week. Winter. Credit, one quarter hour.



INDUSTRIAL ARTS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours excluding physical education

Area I. — Humanities — 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. — Mathematics and Natural Sciences — 20 hours required

Biology 123-124 or	
Chemistry 101-102	10 hours
Mathematics 107-108	10 hours

Area III. — Social Science -- 21 hours required

History 200	5 hours
Political Science 200	5 hours
Social Science 101-102-114	11 hours

Area IV. — Courses appropriate to the major -- 30 hours required

Art 103, 108, or 130	5 hours
Education 216	5 hours
Engineering Technology 101-102-103, Engineering Drawing ..	15 hours
Social Science 201	5 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Industrial Arts Education: 50 hours as specified below:

Industrial Arts Education 201, 202, 203, 301, 302, 312,
401, 402, or 413, 411, and 421

Education: 29 hours required:
Education 303, 304, 317, and 430

Suggested Electives: 19 hours mainly from the following:
Mechanical Engineering Technology 312, 313
Physics 201
Technical Science 302

**TRADE AND INDUSTRIAL
EDUCATION CURRICULUM**

(This program is open to graduates of area vocational-technical schools and persons coming out of industry with acceptable training and experience in the occupations they plan to teach.)

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I. — Humanities — 20 hours required
Humanities 107-108-109 15 hours
Humanities 232 5 hours

Area II. — Mathematics and Natural Sciences — 20 hours required
Mathematics 107-108 10 hours
Chemistry 101-102 or
Biology 123-124 10 hours

Area III. — Social Science — 21 hours required
History 200 5 hours
Political Science 200 5 hours
Social Science 101-114-201 11 hours

Area IV. — Courses Appropriate to the Major — 30 hours required
Trade and Industrial Education 100-200-210
Art 103, 108, or 130 5 hours
Education 216 5 hours
Social Science 201 5 hours

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 hours

Trade and Industrial Education: 50 hours as specified below:
TIE 300, 301, 302, 303, 311-313, 401-402-403, 421
Technical Science 302

Education: 29 hours required
Education 303, 304, 317, 430 or
TIE 431-432-433 Teaching Internship

Technical Science Electives 8 hours

DESCRIPTION OF COURSES

INDUSTRIAL ARTS EDUCATION

201. WOOD PROCESSING I. Care of tools and machinery, basic hand and machine operations, materials selection, and finishing. Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.

202. WOOD PROCESSING II. A study of the construction of more advanced projects by the use of power tools and machines, and wood-finishing. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

203. INDUSTRIAL ARTS DESIGN. Opportunities are provided for the development of design sensitivity and an appreciation for the aesthetic quality of products. Consideration is given also to the analytical and problem-solving procedures of the industrial designers. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

212. INDUSTRIAL MATERIALS. Sources, methods of refinement and preparation of tools and materials commonly used in industry. Five class hours a week. Winter. Credit, five quarter hours.

300. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOL. A course designed to help educators understand how tools, materials, and industrial processes may be used to vitalize and supplement the elementary school child's experiences. Opportunity for the construction of practical children's projects along with the building of classroom equipment will be provided. Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.

301. ARCHITECTURAL DRAFTING. A study of house planning and the making of architectural working drawings. Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.

302. POWER MECHANICS. A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

310. INTRODUCTION TO DRIVER EDUCATION. A study of driver and traffic safety education including a critical analysis of traffic accidents, attitude factors, automobile construction, and traffic laws and regulations. Laboratory experiences include psycho-physical testing and behind-the-wheel development of driving skills. Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.

312. GENERAL ELECTRICITY. The nature of electricity, magnetism, forms and sources of electricity, conductors, insulators, electrical measurements, simple electrical low voltage and house wiring, and electrical heating. Prerequisite: Mathematics 108. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

320. ADVANCED DRIVER AND TRAFFIC SAFETY EDUCATION. A study of the techniques of organizing, teaching and administering driver and traffic safety education programs at the secondary level. Each enrollee is required to teach at least one learner to drive a car. Prerequisites: Industrial Arts Education 310, a valid Georgia driver's license and at least two consecutive years of successful driving experience free of a multiplicity of accidents or traffic violations. Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.

330. CAREER DEVELOPMENT IN THE ELEMENTARY SCHOOL. This course provides an opportunity for the student to develop techniques and skills needed to foster activity-based world of work programs at the elementary school level. Emphasis is placed on making the learner aware of the many kinds of wage earning jobs in America's industrial-technological society through the use of learning packets and construction activities. These are designed to reinforce learning in traditional academic subjects. Prerequisites: Industrial Arts Education 300. Three two-hour lecture laboratory periods a week. Credit, five quarter hours.

400. INDUSTRIAL ARTS PRACTICUM. The application of modern industrial practices and concepts to industrial arts teaching. Prerequisites: Major senior standing. Three two-hour periods a week. Credit, three quarter hours.

401. INDUSTRIAL ARTS ELECTRONICS I. Test equipment diodes, transistors, power supplies, audio amplifiers, trouble shooting and small project construction. Prerequisites: Industrial Arts Education 312 or consent of instructor. Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.

402. INDUSTRIAL ARTS ELECTRONICS II. Radio receivers and transmitters, audio systems, motors and motor controllers, small project construction and instruction methods. Prerequisite: Industrial Arts Education 401. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.

403. SPECIAL INTEREST PROBLEMS. Typical problems related to technical knowledge and the execution of skills as revealed on the field. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

405. ADVANCED POWER MECHANICS. A study of a wide variety of power machines with increased emphasis on maintenance. Prerequisite: Industrial Arts Education 302. Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.

411. CURRICULUM BUILDING AND SHOP ORGANIZATION IN INDUSTRIAL ARTS EDUCATION. A study of the techniques of curriculum development; shop organization and management. Five class hours a week. Fall. Credit, five quarter hours.

413. ELECTRICAL MOTORS. Fundamentals of AC and DC electric motors with emphasis on construction and repair of fractional horse-power motors and devices. Prerequisite: Industrial Arts Education 312. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.

421. METHODS OF TEACHING INDUSTRIAL ARTS. Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts. Five class hours a week. Fall. Credit, five quarter hours.

490. WORLD OF CONSTRUCTION. Preparation for the teaching of basic knowledges and skills of the construction industry as developed by the Industrial Arts Curriculum Project. Five Two-hour lecture-laboratory periods a week. Credit, five quarter hours.

495. WORLD OF MANUFACTURING. Preparation for the teaching of basic concepts of management, personnel and production techniques for creating finished goods in a plant or factory as developed by the Industrial Arts Curriculum Project. Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.

TRADE AND INDUSTRIAL EDUCATION

101-200-210-300. COOPERATIVE INDUSTRIAL WORK EXPERIENCE. Student works in industry under the supervision of a college coordinator to gain practical work experience in the occupational area he plans to teach. If the student has prior acceptable work experience in his occupational area, credit will be granted in these courses proportionately. Credit, five quarter hours per course. Total credit, twenty quarter hours.

203. TECHNIQUES OF TEACHING VOCATIONAL EDUCATION. An introductory course for teachers of occupational education involving selection, organization and methods of instruction. Five class hours a week. Credit, five quarter hours.

213. VOCATIONAL GUIDANCE. A study of the meaning, purposes, techniques, and problems of vocational guidance. Five class hours a week. Spring. Credit, five quarter hours.

301. HISTORY OF VOCATIONAL EDUCATION. A study of the development of vocational industrial education in the United States with emphasis on personalities and economic and technical developments that influenced its growth. Five class hours a week. Fall. Credit, five quarter hours.

302. INDUSTRIAL EDUCATION CURRICULUM. A study of course making and curriculum development with emphasis on organizing instructional materials for vocational industrial education programs. Five class hours a week. Winter. Credit, five quarter hours.

303. SHOP MANAGEMENT. A study of the sources of materials, means of purchasing, methods of inventorying; systems of arranging, installing, maintaining, storing and issuing shop tools and equipment. Five class hours a week. Credit, five quarter hours.

311-313-401-402-403. OCCUPATIONAL COMPETENCY EXAMINATION. Graduates of Vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations. Credit, five quarter hours a course.

323. OCCUPATIONAL ANALYSIS. A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes. Five class hours a week. Spring. Credit, five quarter hours.

410. INSTRUCTIONAL AIDS. This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education. Five class hours a week. Credit, five quarter hours.

412. INDUSTRIAL HYGIENE. A study of industrial accidents and their social and economic consequences. Special consideration is given industrial safety. Five class hours a week. Winter. Credit, five quarter hours.

414. INDIVIDUALIZED INSTRUCTION. A study of the different types of self-paced instructional systems. Emphasis is placed on the development of individualized instructional materials. Five class hours a week. Credit, five quarter hours.

421. METHODS OF TEACHING INDUSTRIAL SUBJECTS. A study of the techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets using a variety of instructional media, and measuring student achievement in trade and industrial education. Five class hours a week. Fall. Credit, five quarter hours.

431-432-433. TEACHING INTERNSHIP IN TRADE AND INDUSTRIAL EDUCATION. A cooperative undertaking between the college and public school system to provide college supervision for employed permit trade and industrial education teachers. This experience is for one academic term and may be taken in lieu of Ed 430 Student Teaching. Prerequisites: Ed 216 & 317; TIE 302 & 421; Vocational teaching permit; full-time employment as a trade and industrial education teacher; approval of teacher's employer. Credit, five quarter hours per course. Total credit, fifteen quarter hours.



DEPARTMENT OF HOME ECONOMICS

EVANEL R. TERRELL, *Head*

Teresa A. Anthony
Mollie N. Curtright

Martha M. Corley*
Diana Wagner
Anita Lincoln

PHILOSOPHY AND PURPOSE

The philosophy of the home economics profession is to help stabilize family life as the core of society and to constantly reassess values and goals in terms of academic principles of education. To this end the Department of Home Economics Proposes to:

1. Help students develop and clarify values which will help them acquire understanding, skills and abilities which make a constructive contribution to family, home and community life situations now and in the future;
2. Become knowledgeable and concerned about relationships and responsibilities to the well-being of people within the greater society;
3. Prepare students for the professional vocations in dietetics and institutional management, and textiles and clothing;
4. Provide a child development sequence for elementary education majors, enabling them to pursue a teaching career in early childhood education, K-3rd grade; and
5. Provide an interdisciplinary social science major outreach with a minor in the disadvantaged and handicapped family.

GENERAL PROGRAM

The following four-year academic curricula in the Department of Home Economics lead to the Bachelor of Science Degree in two areas of specialization, Dietetics and Institutional Management, and Textiles and Clothing.

A total of 195 quarter hours is required in the Dietetics and Institutional Management curriculum and 194 quarter hours in the Textiles and Clothing Curriculum

*ON LEAVE

DIETETICS AND INSTITUTIONAL MANAGEMENT

Students who major in Dietetics and Institutional Management comply with a curriculum prescribed by the American Dietetics Association. Upon graduation students are eligible for appointments as student dietetic interns in A.D.A. approved hospitals, educational or industrial institutions. Upon completion of the 5th year of training, career positions as registered dietitians (R.D.) are available in specialized branches of the Federal Government, public, private and educational institutions.

TEXTILES AND CLOTHING

Textiles and Clothing majors are prepared to find careers in merchandising and retailing in department stores and boutique shops as personal shoppers, clothing analysts comparison shopper analysts, fashion coordinators, fashion buyers, apparel designers, fabric care home economist and retail promotion salesmen. Sufficient technical background is given for a career as a textile tester. Individual enterprises such as interior decorator or fabric shop specialist may be established. Art 152, 232 with additional clothing design in T&C 231, 355 and 463, offer enriched training for prospective design students. Art 340 and 430 are additional costume design electives.

PRE—PROFESSIONAL MOTIVATION AND ENRICHMENT

The perspective of students in the Department of Home Economics is broadened and enriched through required field trips, junior internships and experience affiliations with selected food service institutions and social welfare and textile merchandising establishments. The student defrays the cost of all local and special trips.

Since 1950 the Department of Home Economics has supported and directed the Savannah State College Chapter of the American Home Economics Association.

MINOR

Upon consent of the Department Head, a student may elect any sequence of courses to qualify for a minor field.

INTERDISCIPLINARY PROGRAMS

In addition to the Home Economics degree programs, the Department offers two interdisciplinary programs as described below.

Minor in Early Childhood Education

The training of teachers for early childhood education is a function of the Department of Home Economics in cooperation with the Division of Education. The inclusion of nursery schools and kindergartens in public education provides avenues for immediate employment as teachers upon graduation. The Early Childhood Education curriculum is listed under the Division of Education.

To be certified and recommended for the Early Childhood Education Certificate, the following specialized courses are required:

- CHD 351 Child Development and Guidance
- CHD 453 Activities and Materials for Early Childhood Education
- CHD 454 The Child and His Family
- NTR 452 Nutrition for Children

Early Childhood Education Curriculum

CHD	351	Child Development and Guidance	5
CHD	453	Activities and Materials for Early Childhood	5
CHD	454	The Child and His Family	5
CHD	460	Special Problems of the Pre-school Child	5
FAL	406	Family Relationships	5
NTR	452	Child Nutrition	5
			30

Minor in Disadvantaged and Handicapped Families

This program is designed for social science majors whose interest is in improving the life-style of low income families and children, and other disadvantaged and handicapped persons.

Disadvantaged and Handicapped Families Curriculum (Minor Option)

Recommended Elective Sequence:

- CHD 351 Child Development and Guidance
- FDS 301 Family Foods
- FAL 400 Contemporary Problems of Business, Home, and Industry
- FAL 342 Consumer Economics
- CHD 454 The Child and His Family
- FAL 406 Family Relationships
- T & C 300 Contemporary Clothing Selection

TERMINAL COURSE

DRESSMAKING AND TAILORING

Intended for graduates of approved high schools, this program is designed for persons who desire to specialize in dressmaking or tailoring and become owners of small specialty shops or boutiques. A certificate is earned by two year graduates. Eighty-five to ninety quarter hours are required for a certificate.

DIETETICS AND INSTITUTIONAL MANAGEMENT CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours excluding physical education

Area I. — Humanities — 20 hours required

Humanities 107-108-109	15 hours
Humanities 232	5 hours

Area II. — Mathematics and Natural Sciences — 20 hours required

Mathematics 107	5 hours
Chemistry 101-102	10 hours
Physics 201	5 hours

Area III. — Social Sciences — 21 hours required

Social Science 101, 102-201-114	16 hours
Political Science 200	5 hours

Area IV. — Courses Appropriate to the Major: 30 hours required

Art 130	5 hours
Accounting 201	5 hours
Biology 126	5 hours
Foods 212	5 hours
Textiles and Clothing 152	5 hours
Textiles and Clothing 231	5 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Dietetics and Institutional Management: 58 hours
Foods 319, 335, 431; Institutional Management 319, 433;
Nutrition 316, 361; Biology 306, 307;
Chemistry 307, 404

Business Administration: 10 hours
Economics 201, Business Administration 412

Home Economics: 12 hours
Home Economics 101, 471; Art 330; Family Life 406

Education: 5 hours
Education 316: Educational Psychology

Electives: 13 hours
Humanities 233, 234 are recommended

TEXTILES AND CLOTHING CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 91 quarter hours exclusive of physical education

Area I. — Humanities — 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II. — Mathematics and Natural Sciences — 20 hours required

Mathematics 107	5 hours
Chemistry 101, 102	10 hours
Physics 201	5 hours

Area III. — Social Science — 21 hours required

Social Science 101, 102, 114	11 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV. — Courses Appropriate to the Major — 30 hours required

Biology 126	5 hours
Foods 212	5 hours
Textiles and Clothing 152	5 hours
Accounting 201	5 hours
Textiles and Clothing 231	5 hours
Art 130	5 hours

Physical Education	6 hours
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SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Textiles and Clothing: 65 hours required

Art 232, 330, 420; Foods 319; Business Administration 306,
Child Development 351; Family Life 342, Home Economics 101,
471;
Textiles and Clothing 351, 357, 355, 450, 457, 465 or
Business Administration 409

Natural Science: 10 hours required

Chemistry 307, 310 10 hours

Recommended Electives: 17 hours

Humanities 233, 234 and supportive Home Economics subjects

DESCRIPTION OF COURSES

CHILD DEVELOPMENT

351. CHILD DEVELOPMENT GUIDANCE. The physical, mental, emotional, and social development of children in early childhood and the interrelating environmental factors influencing the development of the young child. Special reference to techniques and guidance. Prerequisites: Education 317 or equivalent. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

453. ACTIVITIES AND MATERIALS FOR EARLY CHILDHOOD EDUCATION. Principles underlying space needs and the selection and uses of materials for creative experiences; with stories, music, literature, art, nature study and other creative media for meeting developmental processes of the young child. Scheduled supervised classroom experience in nursery school, kindergarten or early elementary grades, devoted to observation, participation, teaching and professional involvement commensurate with students readiness. Prerequisites: Education 216, 317, 429, 305, completion of English requirements and major field subjects. Winter and Spring. Credit, five quarter hours.

454. THE CHILD AND HIS FAMILY. The interrelationships of the child and the family through the stages of the family's life cycle. Emphasis on effects of home and family conditions on development of children. Five class hours a week. Winter. Credit, five quarter hours.

460. SPECIAL PROBLEMS OF PRESCHOOL CHILDREN. Study of the social and emotional adjustment of "normal" children, ages 2-5. Emphasis placed on balancing those factors which are preventable and help in resolving difficulties; the teacher's insight and understanding of the child's personality, needs and problems. Prerequisite: Child Development 351. Five class hours a week. Spring quarter. Credit, five quarter hours.

FAMILY LIFE

342. CONSUMER ECONOMICS. Consideration is given to pertinent factors of production, marketing, purchasing, and maximum use of household goods. Five class hours a week. Winter and Spring. Credits, five quarter hours.

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. A broad interdisciplinary course in general education, designed for students with limited backgrounds in business, industry, and advantaged family living. The course covers topics in American industrial and business organization, international economy, general investments, and essentials for and satisfying family living. Three class hours a week. Fall, Winter, and Spring. Credit, three quarter hours.

401. NEWER TECHNIQUES IN FAMILY LIVING. Consideration of newer concepts of family living in a changing world. Problems concerning sociological pressures on the family as a consumer in an affluent society. Five class hours a week. Credit, five quarter hours.

406. FAMILY RELATIONSHIPS. Designed to acquaint students with the significance of marriage, the relationships between various members of the family group, and the degree to which the interplay of personality within the family is affected by culturally conditioned attitudes and needs. Five class hours a week. Fall. Credit, five quarter hours.

445. HOME MANAGEMENT PROBLEMS. (Formerly Home Management Residency.) A Laboratory course designed to prepare young people for family living in a changing society. Problems in living are developed on three levels of income with complementary environmental backgrounds. Experience offered five days per week from breakfast through dinner. Laboratory fees cover cost of meals. Juniors by consent of instructor. Prerequisites: Foods 212, 319 and F.L. 406. Fall, Winter and Spring. Credit, five quarter hours.

FOODS

212. PRINCIPLES OF FOOD PREPARATION. Composition, nutritive value, cost, and processing of different foods. Chemical and physical properties of foods are emphasized in the techniques of basic food preparation and the development of food standards. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

300. FAMILY FOODS. A lecture demonstration course on the selection, preparation and use of food in relation to health and well-being of the individual family and the needs of society. Joint planning by faculty and students on special projects. Non-majors only. One class hour and two two-hour laboratory periods a week. Credit, three quarter hours.

319. MEAL MANAGEMENT. Planning, preparation, and serving attractive and appropriate meals for the family, according to its nutritive needs; stressing time, energy, and money management. Prerequisite: Foods 212. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

334. THE SCHOOL LUNCH. Practical experience in planning nutritious menus for larger groups at various age levels. The preparation and service of foods in quantity. Facilities of the College Cafeteria and the Nursery School are used for practice work. Prerequisite: Foods 319. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

335. QUANTITY FOOD PRODUCTION AND MANAGEMENT. Experience in production of food in large quantity; use of steam and power equipment; menu making for institutions. Computation of costs, menu pricing, and portion control. Prerequisites: Food 212, 319. Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.

371. COOKING FOR SPECIAL OCCASIONS. Study and preparation of foods for various types of party groups. Some problems in food dishes of other nations. Prerequisite: Foods 319 or Departmental approval. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.

400. DEMONSTRATION COOKERY. Principles and techniques of demonstrations of appliances and food products. Prerequisites: Foods 319. Departmental approval. Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.

431. **EXPERIMENTAL FOODS.** Laboratory work in solving practical problems in food preparation; the study of scientific methods and factors involved in establishing standards for cooked foods. Prerequisite: Chemistry 307 and eight hours of foods. Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.

HOME ECONOMICS

101. **INTRODUCTION TO HOME ECONOMICS.** Development and scope of home economics as a field of study and its contribution to education for home and family living. Examination of opportunities in the profession and those related to Home Economics. One class hour a week. Credit, one quarter hour.

471. **HOME ECONOMICS SENIOR SEMINAR.** Designed to accommodate topical presentations of current literature; modern trends and developments in foods and nutrition and in textiles and clothing. Winter or Spring quarter. Credit, one quarter hour.

INSTITUTIONAL MANAGEMENT

319. **PURCHASING AND BUYING.** Production, distribution, and storage of supplies to serve as a basis for purchase of such commodities for quantity use. Includes techniques for buying canned, fresh, frozen, and dried commodities in quantity. Field trips required. Five class hours a week. Fall. Credit, five quarter hours.

353. **INSTITUTIONAL EQUIPMENT.** A study of lay-outs for institutional use; selection of equipment, including materials, construction, installation, care, and relative cost. Field trips required. Five class hours a week. Winter. Credit, five quarter hours.

433. **ORGANIZATION AND MANAGEMENT.** The organization and administration of various types of institutions. Field trip required. Five class hours a week. Spring. Credit, five quarter hours.

460. **CATERING.** Food production, menu making, cost computation, and service for parties. Two class hours and one two-hour laboratory period weekly. Credit, three quarter hours. Prerequisites: Foods 319, 335 or by consent of instructor.

NUTRITION

316. **NORMAL NUTRITION.** A study of the science of nutrition and its application to the nutritional requirements of individuals at

various age levels. Practical problems in dietary calculations. Prerequisite: Chemistry 307. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.

351. NUTRITION AND DIETETICS. The chemistry of nutrition in relation to metabolic processes. Prerequisites: Nutrition 316, Chemistry 101, 102, 107. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

451. DIET THERAPY. Hospital administration as related to hospital dietetics. Application of principles of nutrition to the normal diet and to abnormal conditions; planning and preparation of special diets. Prerequisites: Nutrition 351, Chemistry 101, 102, 317, 404. Two class hours and three two-hour laboratory periods a week. Field work in hospitals to be arranged. Spring. Credit, five quarter hours.

452. NUTRITION FOR CHILDREN. The study of normal growth patterns and the principles involved in meeting the nutritional requirements of preschool and early school age children. Laboratory work in nursery school and elementary school lunchroom. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.

455. FIELD WORK IN NUTRITION. Opportunities to observe and participate in the activities of welfare and public health agencies with problems relating to the promotion of better nutrition and the general welfare of individuals and selected groups. Field problems arranged. One class hour and two two-hour laboratory field trips a week. Winter and Spring. Credit, three quarter hours.

461. METHODS OF TEACHING NUTRITION. Techniques and materials for presenting instruction in nutrition to persons of all age levels. Practical experience in presenting materials provided through work with elementary school teachers and pupils and disadvantages or handicapped adults. Prerequisite: senior status, consent of instructor, Nutr. 316 and Art 130. Three class hours a week. Winter. Credit, three quarter hours.

463. NUTRITION SEMINAR. Critical study of historical and current literature on energy metabolism, proteins, fats, carbohydrates, vitamins, and minerals. Prerequisite: Nutrition 351. Two class hours a week. Spring. Credit, two quarter hours.

TEXTILES AND CLOTHING

152. ELEMENTARY TEXTILES. The study of structure, composition, physical and chemical properties of animal, plant and man

made fibers. Fundamental weaves, yarns, finishes with reference to uses and care that affect consumer choices. Prerequisite: Chemistry 101, 102, 310. Three class hours and two two-hour laboratory periods a week. Fall. Five quarter hours.

231. CLOTHING CONSTRUCTION. The construction and design of commercial patterns and methods of alteration. Understanding of and utilization of basic construction techniques in relation to fabric design, special types of fabrics and their application to garment construction. Prerequisite: T & C 152. Two class hours and three two-hour laboratory periods a week. Spring. Five quarter hours.

300. CONTEMPORARY CLOTHING SELECTION. Experience is provided in the use of commercial patterns, fitting and clothing construction. Problems based on personal interests with aspects of sociological and psychological influences. Non-majors only. One class hour and two two-hour laboratories a week. Three quarter hours.

315. FAMILY AND CHILDREN'S CLOTHING. Designed to help students gain further experience with clothing problems in families, with special emphasis on the needs of growing children, and other family members; selection, construction, renovation and repair of clothing. Study of certain psychological, sociological and economic factors which may influence family clothing choices. Elective. Fall. Two class hours and three two-hour laboratory periods a week. Credit, five quarter hours.

351. ADVANCED DRESSMAKING. Experiences in the planning, fitting and construction of designer garments. Some flat pattern methods and related garment construction; making a pattern for and constructing selected dress design in appropriate fabric. Emphasis on workmanship. Prerequisites: T & C 152, 231. Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.

440. DRAPING AND DRESS DESIGN. Increased understanding of garment fit and control of fabric grain is acquired through the techniques of draping and for flat pattern design. Advanced technique and skill in clothing construction are developed through the creation and execution of an original design. Prerequisites: Art 130, 323; T & C 231, 351 or equivalents. Two class hours and three two-hour laboratory periods a week. Winter. Five quarter hours.

357. TAILORING. A course designed to introduce students to tailoring techniques and methods construction of tailored garments using woolen fabrics. Prerequisite: T & C 231, 351. Two three-hour

laboratory periods and two one-hour lecture periods a week. Fall. Credit, five quarter hours.

450. ADVANCED TEXTILES. A study of factors which predetermine fabric appearance and performance in use. Analysis based on appropriate physical and chemical tests for quality differences in fabrics due to variation of fibers, content, structure, and finishes. Suitability of fabrics for specified uses. Prerequisites: Chemistry 310, T & C 152. Three one hour class lectures and two two-hour laboratory periods a week. Credit, five quarter hours.

457. TEXTILES IN HOME FURNISHINGS. A study of the factors related to the materials, selection, comparative cost, performance and care of textiles and fabrics used in home furnishings. Prerequisites: Chemistry 310, T & C 152, Art 232, 330. Four class hours and one two hour laboratory period a week. Winter. Five quarter hours.

463. ADVANCED TAILORING. Continuation of techniques and processes used in tailoring 357 with construction of coat, suit and tailored dress. Use of hand details and appropriate finishes for problems. Prerequisites: T & C 351, 357. Two lectures and three two hour laboratory periods. Elective. Winter or Spring. Five quarter hours.

465. FIELD PROBLEMS IN CLOTHING AND MERCHANDISING. A practicum associated with the financial management, administrative practices, human relations and policy development of clothing store operation. By special arrangement, the laboratory may be taken during the summer before the senior year. Off-campus experience is arranged through the Department of Home Economics and Division of Business Administration. Three weeks seminar period, five hours per week, required before going on the field for 100 hours of experience or training.



SPECIAL STUDIES PROGRAM

Norman Benedict Elmore, Chairman

Janie V. Bruen
Joan S. D. Green
Mildred H. Hall

Willie George McLemore
Emogene S. Middleton
George O. Thomas, Sr.

The basic aim of the Special Studies Program is to provide basic, developmental and corrective instruction for freshman-level students who demonstrate marked deficiencies in English, reading, and mathematics. The Special Studies Program (formerly the Developmental Education Program and/or Demonstration Development) was initiated at Savannah State College by the Regents of the University System of Georgia, in 1969. The administration gave the Department full academic status and autonomy at the beginning of the 1973-1974 fiscal year.

Entering freshmen who earn a combined score of less than 650 on the Scholastic Aptitude Test (SAT) must sit for the Comparative Guidance and Placement Test (CGP) which is used by the University System of Georgia to determine satisfactory levels of performance. Results of the tests (in English, mathematics, and reading) may indicate that such students should be admitted to the Special Studies Program but with a variety of placements:

1. If there are academic deficiencies in English communicative skills, reading comprehension, and mathematics, only Special Studies, physical activity, and freshman seminar courses will be taken.

2. If there are academic deficiencies in English communicative skills and reading comprehension but an indication of likely success in mathematics, students will register for Special Studies courses in English communicative skills and reading comprehension and for courses which carry regular college credit in academic areas.

3. If there are academic deficiencies in mathematics but an indication of likely success in English communicative skills and reading comprehension, the students will register for a Special Studies course in mathematics and for courses which carry regular college credit in academic areas.

4. Students who sit for the Comparative Guidance and Placement Program (CGP) and whose test results indicate a lack of serious deficiencies in the areas considered qualify for admission into the regular Freshman College program. Such students are accorded full freshman status.

Cut-off scores for the Comparative Guidance and Placement Program (CGP) set by the Regents of the University System of Georgia determine whether or not students are placed in the Special

Studies Program or are accorded full freshman status.

Students may transfer from a Special Studies course into a regular course during or at the end of the first, second, or third quarter if acceptable levels of performance have been articulated.

Upon satisfactory termination of all required Special Studies courses, students are admitted to the regular Freshman College program.

It is a foregone conclusion that some students will take one, two, and even three quarters of courses in Special Studies. Students enrolled in Special Studies courses will have one academic year in which to demonstrate proficiency in courses or areas in which they were deemed deficient when they initially began matriculation at Savannah State College. Students who do not demonstrate the desired proficiency in English communicative skills, reading comprehension, and mathematics through learning situations provided by the Department of Special Studies may not be allowed to continue matriculation at Savannah State College, after one academic year will have passed.

Students who are accorded Special Studies status will not be labeled as a separate group, and in all other considerations they will be regarded as regular students in the Freshman College.

Courses offered by the Department of Special Studies include the following:

- Special Studies 102: Basic Mathematics I
- Special Studies 103: Basic Mathematics II
- Special Studies 104: Basic Reading I
- Special Studies 105: Basic Reading II
- Special Studies 106: Basic English I
- Special Studies 110: Topics in the Humanities
- Special Studies 111: Topics in Reading
- Special Studies 115: Topics in the Social Sciences (Reading)
- Special Studies 116: Basic English II (Integrated Approach)
- Special Studies 122: Topics in the Natural Sciences (Reading)

Savannah State College will award institutional credit only for Special Studies courses.

Special Studies courses will carry quarter hours credit and grades of A, B, C, and IP will be given. Students receiving an IP grade must repeat the course or courses in which such a grade was given during the next quarter they are in residence at Savannah State College.

At Savannah State College, quarter hours earned in Special Studies courses will not be counted as college credit and grades earned in such courses will not be used in determining cumulative grade point averages.

The grades students earn in Special Studies courses will be determined by an evaluation of course work and performance on the Comparative Guidance and Placement Program (CGP). Scoring at or above the Regents' cut-off score on the Comparative Guidance and

Placement Program (CGP) is prerequisite to students' receiving a minimum passing grade of C in Special Studies courses.

Special Studies students at Savannah State College may carry a maximum of five courses (17 quarter hours) per quarter, three five-hour Special Studies courses and, in addition, one physical activity course and the freshman seminar or three five-hour Special Studies courses and physical activity courses totaling two quarter hours.

Personnel attached to the Special Studies Program also teach Social Science 114—The Psychology of Social Relationships, a one-credit hour course required of all freshman and transfer students. The course is a component of the Freshman Studies Program.

DESCRIPTION OF COURSES SPECIAL STUDIES

102. BASIC MATHEMATICS I. A basic requirement for students who do not achieve satisfactorily on the Mathematics Placement Test, a component of the Comparative Guidance and Placement Program (CGP). The number systems; measurements; equations; formulas; verbal analyses of problems; measurement of angles, triangles, circles, and polygons. Five class hours a week. Fall, Winter, Spring, and Summer. Credit, five quarter hours institutional credit (not counted towards graduation).

103. BASIC MATHEMATICS II. A continuation of Special Studies 102, treating elementary algebraic functions. Five class hours a week. Fall, Winter, Spring, and Summer. Credit, five quarter hours institutional credit (not counted towards graduation).

104. BASIC READING I. This course is a basic requirement for students who do not achieve satisfactorily on the Reading Placement Test, a component of the Comparative Guidance and Placement Program (CGP). Focuses attention on present reading and study habits. Arrives at means of improvement through directed practice and developing independence in learning through the application of adequate communication skills. Five class hours a week. Fall, Winter, Spring, and Summer. Credit, five quarter hours institutional credit (not counted towards graduation).

105. BASIC READING II. This course is a requirement for certain students who do not achieve satisfactorily on the Reading Test, a component of the Comparative Guidance and Placement Program (CGP). A continuation of Special Studies 104, focusing on the acquisition of proficiency in those reading skills not previously learned. Five class hours a week. Fall, Winter, Spring, and Summer. Five quarter hours institutional credit (not counted towards graduation).

106. BASIC ENGLISH I. Designed for freshmen who score below the Regents' cut-off score on the English Test, a component of the Comparative Guidance and Placement Program (CGP). Focuses on the rhetoric of the sentence and the paragraph, giving some attention to oral compositional skills. Five class hours a week. Fall, Winter, Spring, Summer. Five quarter hours institutional credit (not counted towards graduation).

110. Topics in the Humanities. This course is a requirement for students who do not achieve satisfactorily on the English Test, a component of the Comparative Guidance and Placement Program (CGP), but who earn scores near the Regents' cut-off score. Oral and written discussion of current topics in English language and literature. Five class hours week. Fall, Winter, Spring, and Summer. Five quarter hours institutional credit (not counted towards graduation).

111. Topics in Reading. This course is a requirement for students who do not achieve satisfactorily on the Reading Test, a component of the Comparative Guidance and Placement Program (CGP), but who earn scores near the Regents' cut-off score. Focus on the corrective and recreational reading process, utilizing varying levels of reading materials. Five class hours a week. Fall, Winter, Spring, and Summer. Five quarter hours institutional credit (not counted towards graduation).

115. Topics in the Social Sciences. Required of students who indicate a desire to major in one of the social sciences but who do not achieve satisfactorily on the Reading Test, a component of the Comparative Guidance and Placement Program (CGP). Focuses on the contemporary societal issues and the popular culture. Five class hours a week. Offered on demand. Five quarter hours institutional credit (not counted towards graduation).

116. Basic English II. The Integrated Approach to the Teaching of Reading and Writing. This course is a requirement for students who do not achieve satisfactorily on the English and Reading Tests, components of the Comparative Guidance and Placement Program (CGP) but who score near the Regents' cut-off scores in English and reading. Focuses on refining rhetorical skills which deal with the rhetoric of the sentence and the paragraph and the acquisition of acceptable reading skills, focusing primarily on comprehension, interpretation, and drawing inferences.

122. Topics in the Natural Sciences. Required of students who indicate a desire to major in one of the natural sciences but who do not achieve satisfactorily on the Reading Test, a component of the Com-

parative Guidance and Placement Program (CGP). Focuses on making students aware of the manner in which natural scientists write and gives some insight and analysis of the vocabulary they use. Attention is given to the acquisition of those reading and compositional skills not previously learned. Readings in the natural sciences are utilized. Five class hours a week. Offered on demand. Five quarter hours institutional credit (not counted towards graduation).

INDEX

Academic programs.....	30-31
Academic regulations.....	55
Attendance	55
Changes in grades	56
Grading system	55
Mid-quarter grades.....	57
Procedure for withdrawal.....	57
Scholastic average, computing.....	57
Scholarship standards	58
Student load.....	58
Accounting	67 & 71
Accreditation of the College	Inside front cover
Administration, officers of	7
Administrative staff	19-20
Admissions.....	36-42
Aptitude and intelligence tests.....	36
Non-residents	41
Special students.....	40
Teacher education program.....	80
Transcripts	36
Transfer students	37
Transient students	39
Art education	110
Attendance regulations	55
Auditing courses	40
Baccalaureate degree, general requirements for	60
Biology, Department of.....	128
Curricula	129
Description of courses	132
Paramedical career options	132
Buildings and grounds	26
Business Administration, Division of.....	63
Accounting.....	67
Basic business core.....	65
Certificate program.....	69
Cooperative programs	64
Core requirements.....	65
Degree programs	63
Description of courses	71
Economics	67
Finance.....	68
General business administration	65
Graduate program	29
Management-marketing	68
Minor programs.....	69
Office administration.....	69
Two-year secretarial science curriculum	70
Typewriting proficiency	64
Business education	66
Calendar, college	1-5
Certificate programs.....	69
Certification programs, supplemental	69

INDEX (Cont.)

Chemistry, Department of	156
Curricula	157
Description of courses	160
Child development	222
Civil technology	194
Classification of students	57
Communications	101 & 107
Comprehensive examinations	100
Conduct, student	51
Core curriculum	61
Correspondence directory	inside front cover
Correspondence study	34
Counseling and guidance	52
Credit, transfer of (See Advanced Standing)	37
Criminal Justice	183
Cumulative average	57
Data processing	141
Degrees and academic programs	30
Developmental education program	35
Dietetics and institutional management	221
Dressmaking and tailoring	223
Drugs, policy on use of	51
Early childhood education	222
Earth science	150
Economics	67
Education, Division of	80
Art education	115
Description of courses	85
Driver education	215
Early childhood education	222
Elementary education	83
Secondary education programs	81
Biology	130
Business	63
Chemistry	158
Description of courses	
Earth science	150-144
English	96
French	123
German	125
Grades 1-12	81
Health, physical education, and recreation	91
Industrial arts	214
Mathematics	142
Music	120
Modern languages	121
Physics	145
Science, computer	141
Social studies	81
Spanish	125
Trade and industrial education	217
Teacher-librarian program	88

INDEX (Cont.)

Electronic media, minor in	101
Electronics technology	195
Engineering technology	195
English, Department of	95
Communications	100
Comprehensive examination	100
Description of courses	103
English education major	96
English language and literature major	97
English minor	97
Option in electronic media	101
Option in journalism	101
Expenses, estimated general	43
Extended services	32
Staff	20
Faculty	8
Family life courses	226
Fees, explanation of	43
Application fee	43
Graduation fee	44
Health fee	44
Late registration fee	44
Matriculation fee	44
Non-resident tuition	44
Room, board, laundry	44
Room deposit	44
Special examination fee	45
Student activities fee	45
Transcript fee	45
Fees, refund of	45
Finance	46
Financial assistance	46
Fine Arts, Department of	109
Art education	109
Description of courses	113
Graphic and plastic arts	109
Music education	120
Foods courses	227
French	123
Description of courses	123
Freshman admissions	36
Freshman lectures (see Orientation)	52
Freshman studies	
General business administration	65
Georgia and U.S. history and constitution requirement	177
Grading system	55
Incomplete courses and withdrawals	56
Changes in grades	56
Mid-quarter grades	57
Scholastic average	57
Graduate studies	29
Graduation honors	59

INDEX (Cont.)

Mechanical engineering technology	198
Trade and industrial education	217
Terminal courses	223
Textiles and clothing	224
Trade and industrial education	213
Cooperative program	211
Transfer students (See Advanced Standing)	37
Transient students	39
United States history and constitution requirement	177
Veterans services	53
Withdrawal, procedure for	57

